API Well Number: 43013520790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
UTE TRIBAL 13-9-4-3-2WH

2. TYPE OF WORK
DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
WILDCAT

4. TYPE OF WELL
Oil Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
NEWFIELD PRODUCTION COMPANY

7. OPERATOR PHONE
435 646-4825

8. ADDRESS OF OPERATOR
Rt 3 Box 3630 , Myton, UT, 84052

9. OPERATOR E-MAIL
mcrozier@newfield.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
1420H626269

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ◉ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ◉

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Murray Sheep Ranch, LLC - Dallas Murphy

14. SURFACE OWNER PHONE (if box 12 = 'fee')
435-823-1114

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
P.O. Box 96, Myton, UT 84052

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ◉

19. SLANT
VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ◉

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	276 FNL 1452 FWL	NENW	16	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	330 FSL 660 FWL	SWSW	9	3.0 S	2.0 W	U
At Total Depth	330 FNL 660 FWL	NWNW	4	3.0 S	2.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
276

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
30

26. PROPOSED DEPTH
MD: 19124 TVD: 9336

27. ELEVATION - GROUND LEVEL
5256

28. BOND NUMBER
WYB000493

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	24	20	0 - 60	37.0	H-40 ST&C	0.0	Class G	57	1.17	15.8
SURF	17.5	13.375	0 - 1500	54.5	J-55 ST&C	8.4	Class G	120	3.33	11.0
							Class G	420	1.9	13.0
I1	12.25	9.675	0 - 8482	40.0	N-80 Buttress	10.0	Premium Lite High Strength	671	3.53	11.0
							50/50 Poz	532	1.29	14.0
PROD	8.75	5.5	0 - 18663	20.0	P-110 Other	14.0	No Used	0	0.0	0.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Don Hamilton **TITLE** Permitting Agent **PHONE** 435 719-2018

SIGNATURE **DATE** 03/06/2013 **EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43013520790000

APPROVAL

Permit Manager

CONFIDENTIAL

RECEIVED: September 10, 2013

Newfield Production Company
13-9-4-3-2WH
Surface Hole Location: 276' FNL, 1452' FWL, Section 16, T3S, R2W
Bottom Hole Location: 330' FNL, 660' FWL, Section 4, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,637'
Garden Gulch member	6,575'
Uteland Butte member	8,764'
Lateral TD	9,368' TVD / 18,663' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	996'	(water)
Green River	6,575' - 8,764'	(oil)
Uteland Butte member	8,764' - 9,368'	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.68	2.24	6.29
Intermediate	0'	8,410'	40	N-80	BTC	10	10.5	15	5,750	3,090	916,000
9 5/8		8,482'							1.09	1.35	2.72
Production	0'	9,368'	20	P-110	BTC	14	14.5	16	12,360	11,080	641,000
5 1/2		18,663'							2.10	1.81	1.72

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,205'
Intermediate csg run from surface to 8,410' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 120	15%	11.0	3.33
Surface Tail	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 420	15%	13.0	1.9
Intermediate Lead	12 1/4	6,575'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2368 / 671	15%	11.0	3.53
Intermediate Tail	12 1/4	1,907'	50/50 Poz/Class G + 1% bentonite	687 / 532	15%	14.0	1.29
-- --	--	--	--	-- / --	--	--	--
-- --	--	--	--	-- / --	--	--	--

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The 5.5" production string will be left uncemented and run from surface to TD. Individual frac stages will be isolated with open hole packers.

This well will not be perforated or produced outside the legal setbacks

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

RECEIVED: August 06, 2013

1,500'	- 8,482'	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

8,482'	- TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.

Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

RECEIVED: August 06, 2013

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,368' x 0.73 psi/ft = 6819.9 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Uteland Butte member of the Green River formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,517'
Directional tools will then be used to build to 87.05 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" Long string will be run from TD to Surface. An open hole completion system with a series of open hole packers & sliding sleeves will be used to provide multi-stage frac isolation in the lateral. A Casing Packer will be placed at the 9-5/8" Shoe and a swell packer at the heal of the well for casing stability and frac isolation.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

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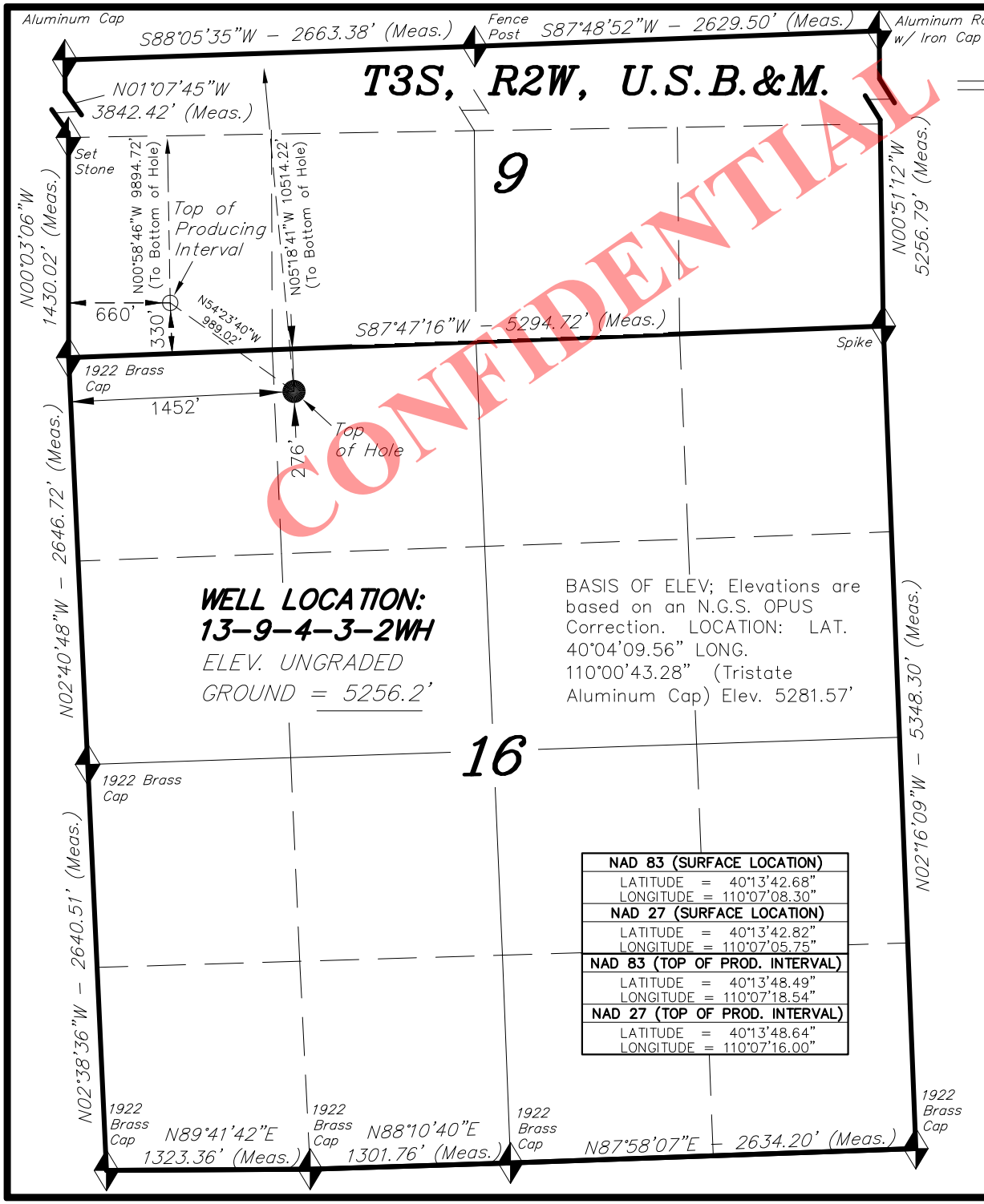
API Well Number: 43013520790000



NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 13-9-4-3-2WH, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 16, T3S, R2W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'

BAR SCALE

N

NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

= SECTION CORNERS LOCATED

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 01-21-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 08-08-12	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 08-10-12	DRAWN BY: M.W.	V3
REVISED: 01-21-13 V.H.	SCALE: 1" = 1000'	

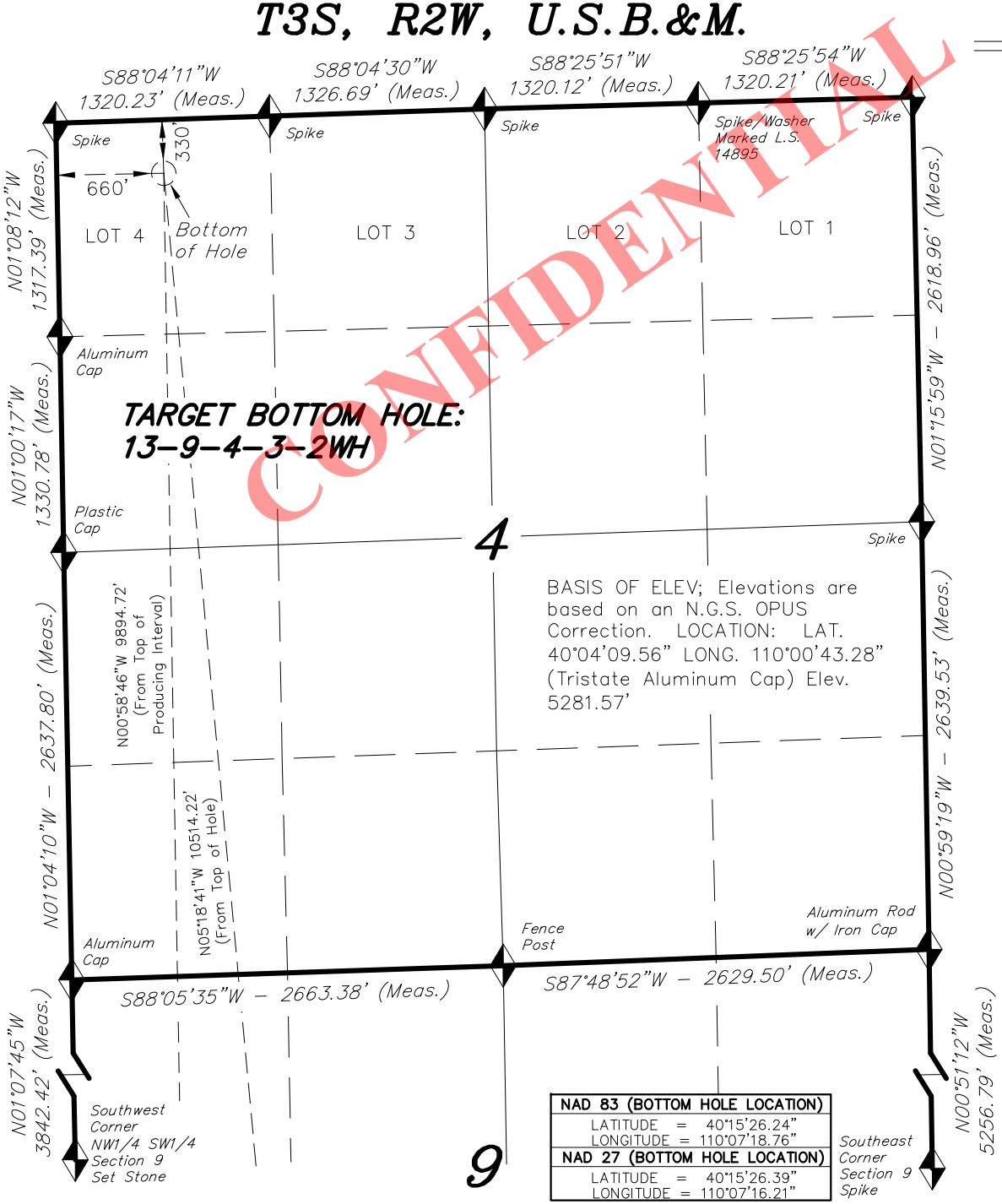
RECEIVED: March 06, 2013

API Well Number: 43013520790000

T3S, R2W, U.S.B.&M.

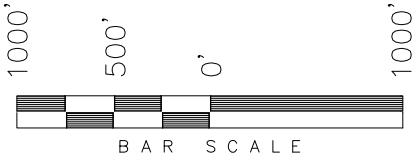
NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, 13-9-4-3-2WH,
LOCATED AS SHOWN IN THE NW 1/4
NW 1/4 (LOT 4) OF SECTION 4, T3S,
R2W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



CONFIDENTIAL

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°15'26.24"
LONGITUDE = 110°07'18.76"
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°15'26.39"
LONGITUDE = 110°07'16.21"



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

= SECTION CORNERS LOCATED

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REGISTERED LAND SURVEYOR
No.189377
01-21-13
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

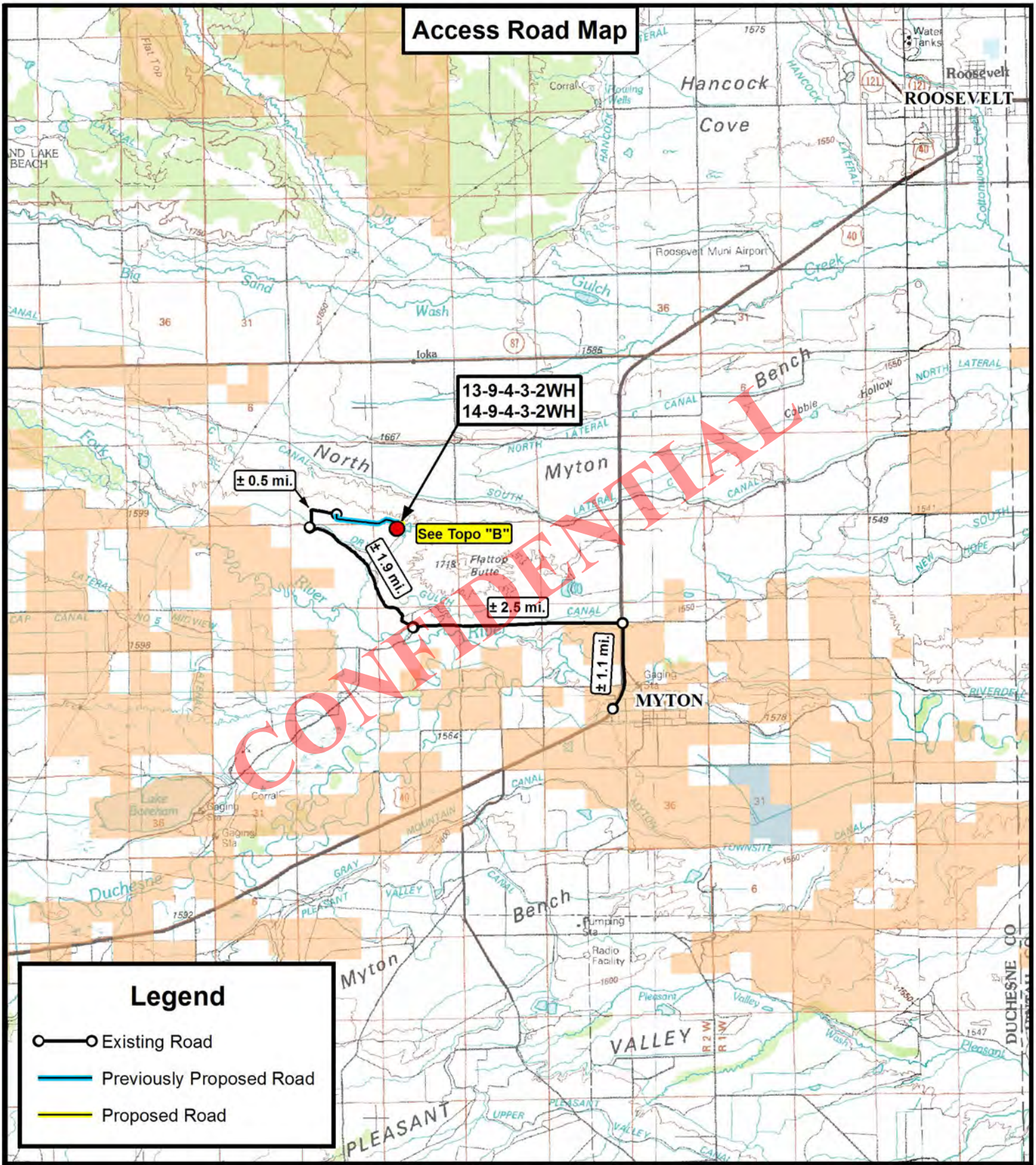
TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 08-08-12	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 08-10-12	DRAWN BY: M.W.	V3
REVISED: 01-21-13 V.H.	SCALE: 1" = 1000'	

RECEIVED: March 06, 2013

API Well Number: 43013520790000



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

13-9-4-3-2WH
14-9-4-3-2WH
SEC. 16, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

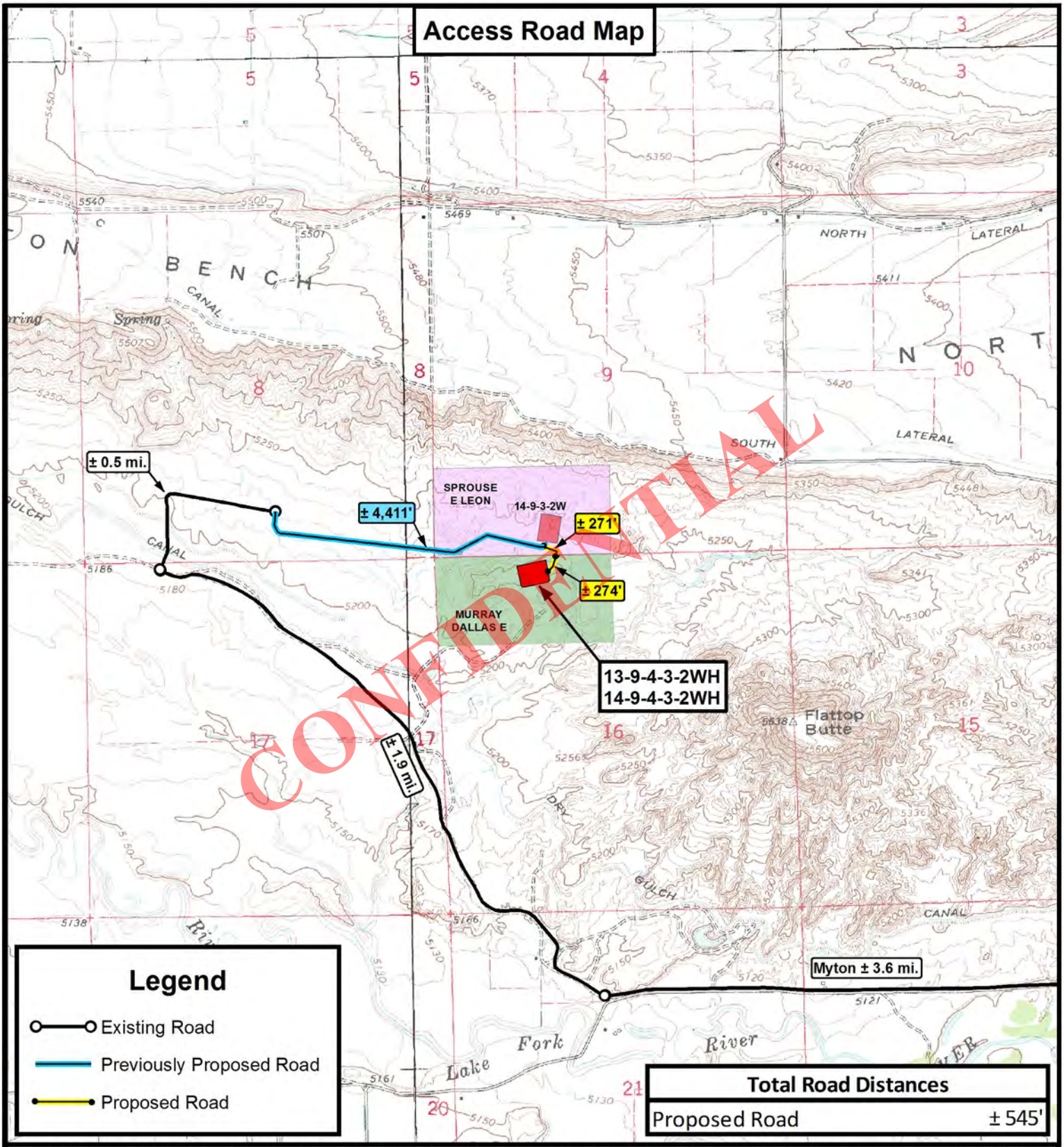
DRAWN BY:	A.P.C.	REVISED: 01-21-13 A.P.C.	VERSION:
DATE:	08-13-2012		V3
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43013520790000

Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY
13-9-4-3-2WH
14-9-4-3-2WH
SEC. 16, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

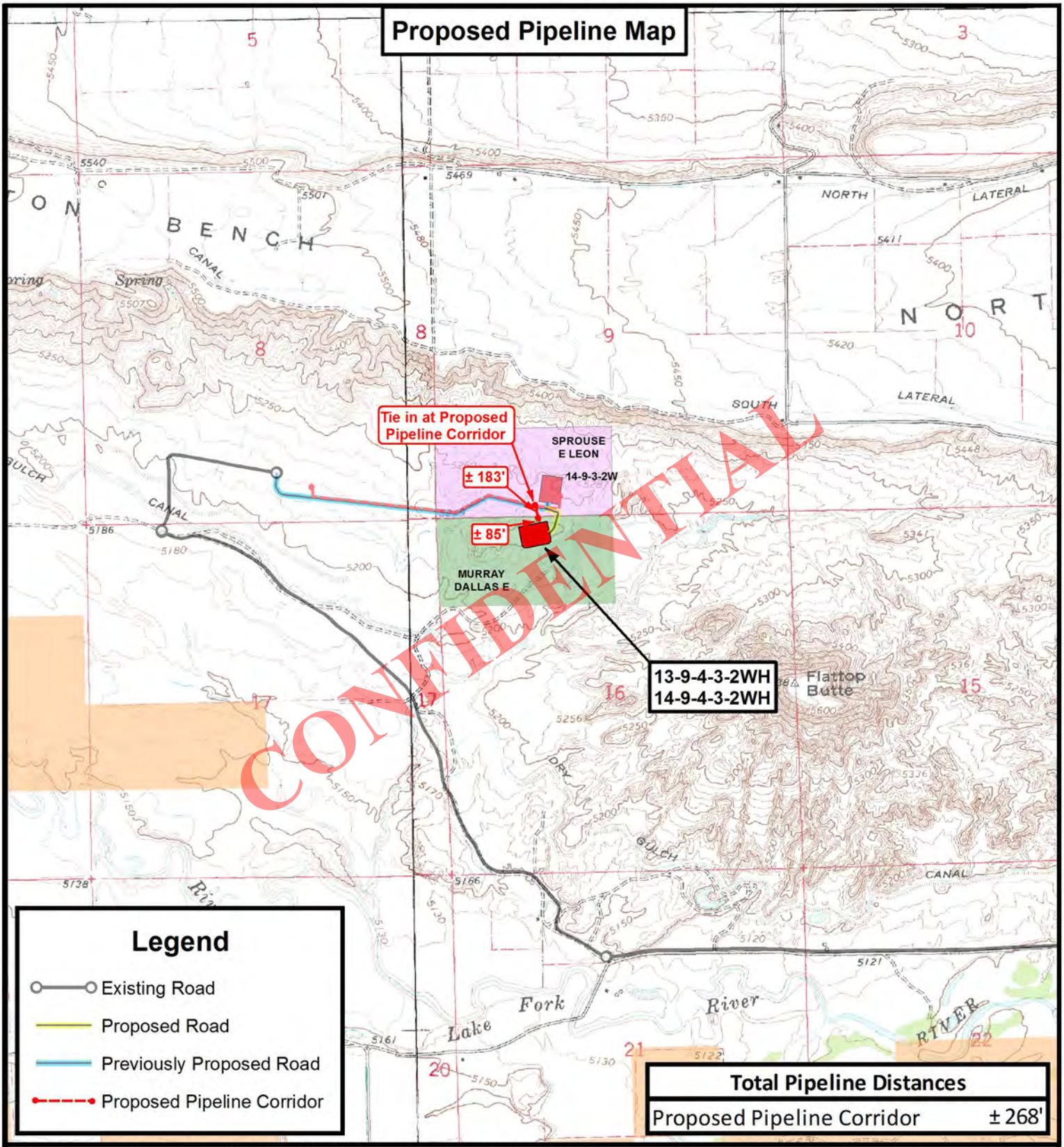
DRAWN BY:	A.P.C.	REVISED: 01-21-13 A.P.C.	VERSION:
DATE:	08-13-2012		V3
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013520790000

Proposed Pipeline Map



Legend

- Existing Road
- Proposed Road
- Previously Proposed Road
- Proposed Pipeline Corridor

Total Pipeline Distances	
Proposed Pipeline Corridor	± 268'

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N

NEWFIELD EXPLORATION COMPANY

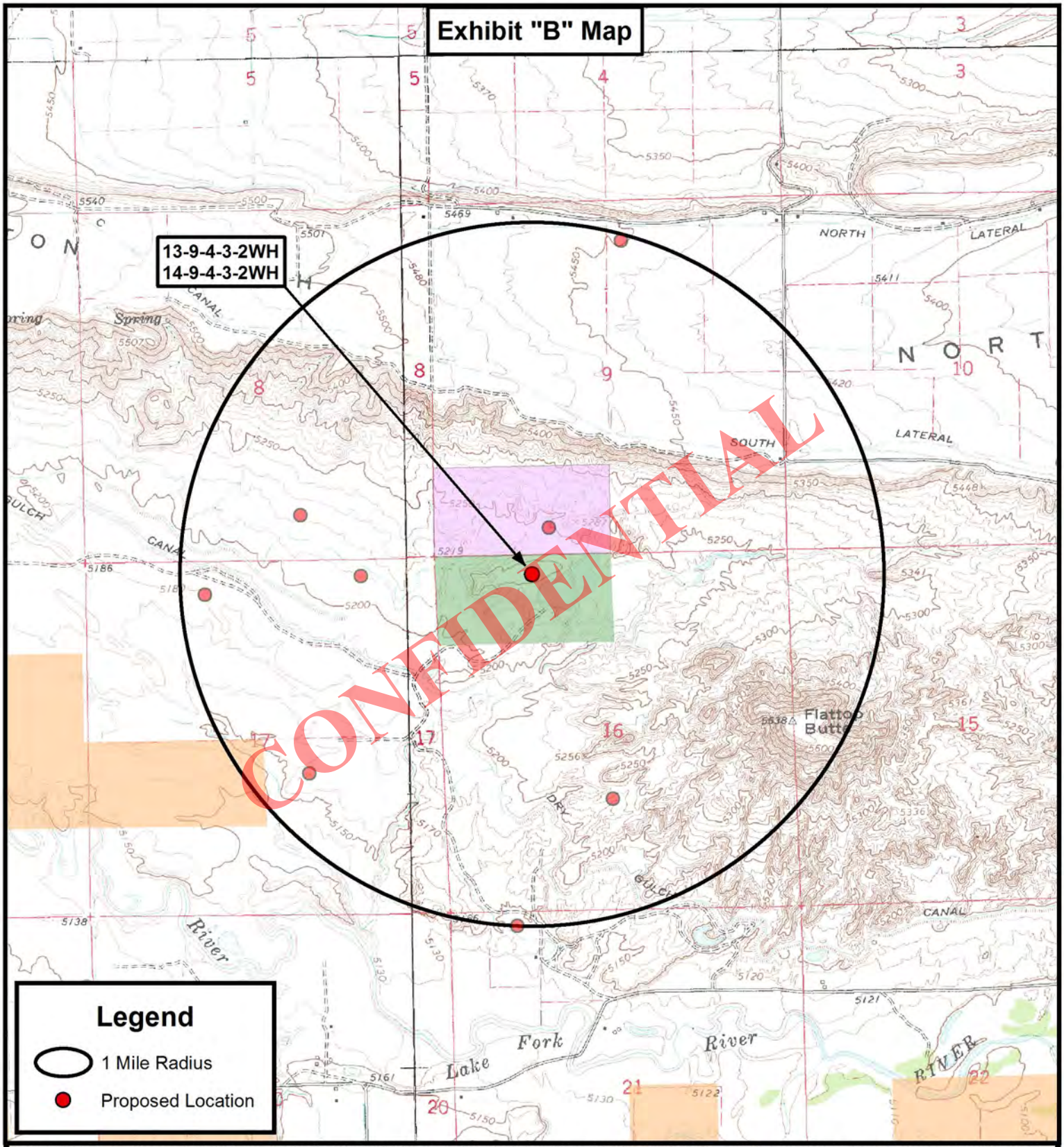
13-9-4-3-2WH
14-9-4-3-2WH
SEC. 16, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED: 01-21-13 A.P.C.	VERSION:
DATE:	08-13-2012		V3
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013520790000



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N

NEWFIELD EXPLORATION COMPANY

13-9-4-3-2WH
14-9-4-3-2WH
SEC. 16, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

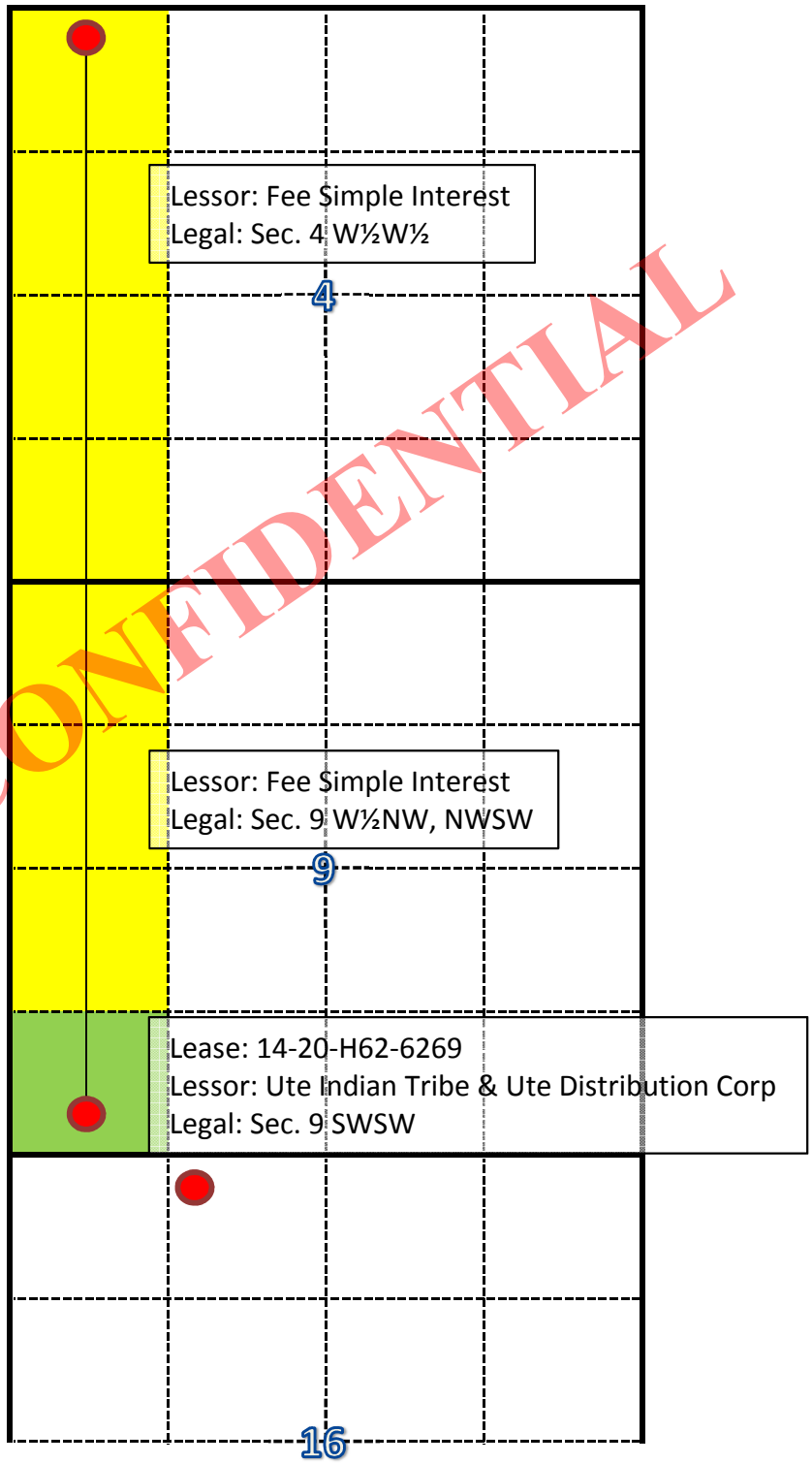
DRAWN BY:	A.P.C.	REVISED:	01-21-13 A.P.C.	VERSION:
DATE:	08-13-2012			V3
SCALE:	1 " = 2,000 '			

TOPOGRAPHIC MAP

SHEET D

Ute Tribal 13-9-4-3-2WH

SHL 276' FNL & 1452' FWL of Section 16
Top of Producing Interval 330' FSL & 660' FWL of Section 9
BHL 330' FNL & 660' FWL of Section 4



RECEIVED: March 06, 2013

API Well Number: 43013520790000

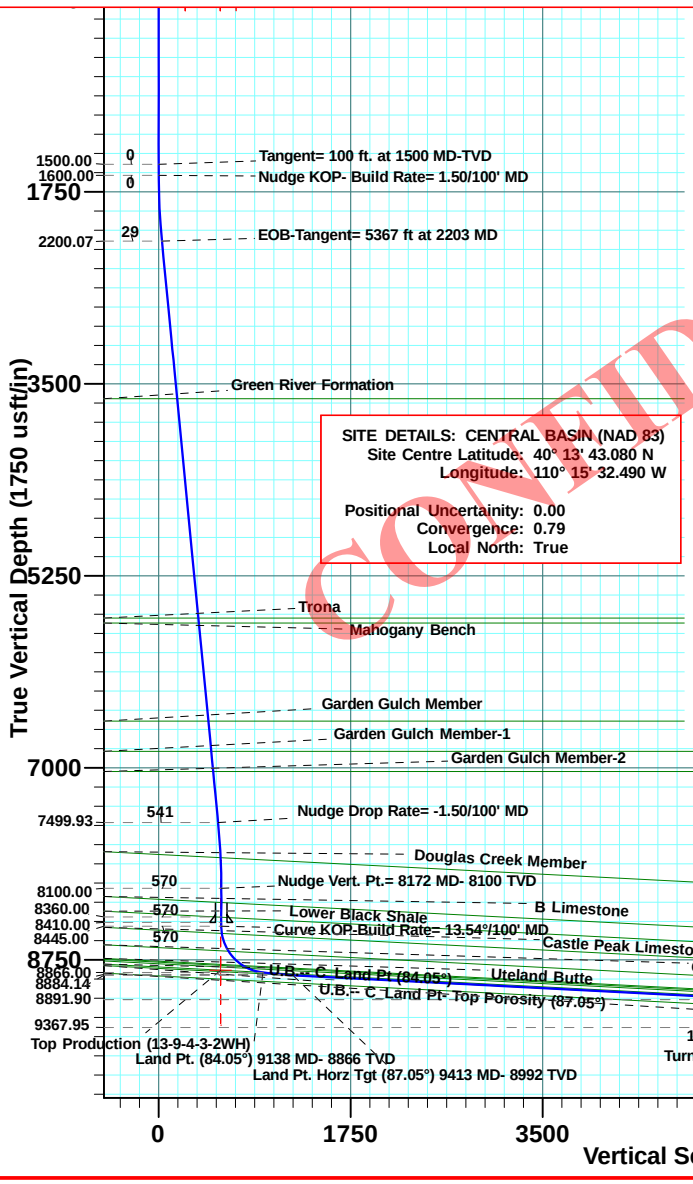
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: UTE TRIBAL 13-9-4-3-2WH (PLAN: Rev01)
SEC. 16, T3S-R2W, DUCHESNE COUNTY, UTAH
RIG NAME: PIONEER 78 (KB= 28')
JULY 02, 2013 -- WELL PLAN PLOT

NEWFIELD ROCKY MOUNTAINS

LEAM Drilling Systems LLC

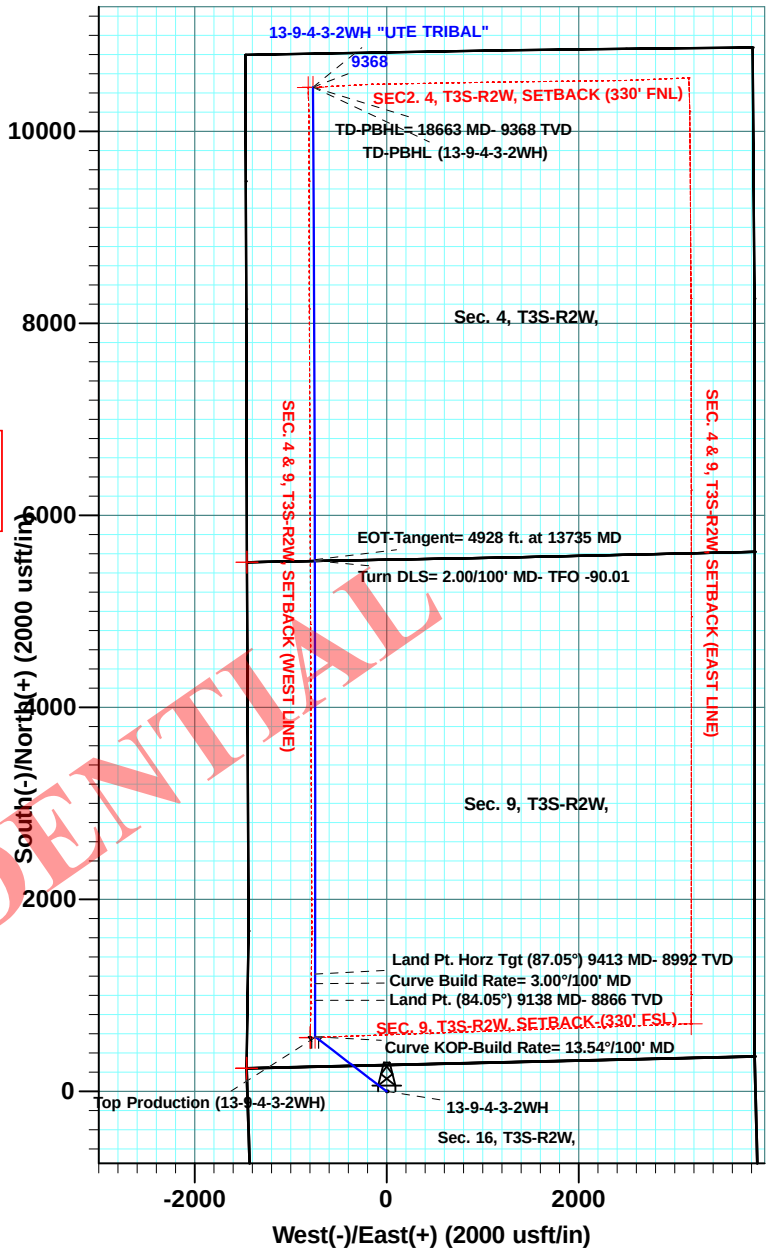
WELL DETAILS: 13-9-4-3-2WH
Ground Level: 5256.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7254942.12	2025991.43	40° 13' 42.680 N	110° 7' 8.300 W	



SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainty: 0.00
Convergence: 0.79
Local North: True

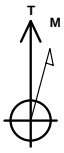


PROJECT DETAILS: DUCHESNE COUNTY, UT (NAD 83)
Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00		Tangent= 100 ft. at 1500 MD-TVD
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00		Nudge KOP- Build Rate= 1.50/100' MD
2202.57	9.04	307.43	2200.07	28.82	-37.67	1.50	307.43	28.82		EOB-Tangent= 5367 ft at 2203 MD
7569.06	9.04	307.43	7499.93	541.18	-707.18	0.00	0.00	541.18		Nudge Drop Rate= -1.50/100' MD
8171.63	0.00	0.00	8100.00	570.00	-744.85	1.50	180.00	570.00		Nudge Vert. Pt.= 8172 MD- 8100 TVD
8431.63	0.00	0.00	8360.00	570.00	-744.85	0.00	0.00	570.00		Top Lower Black Shale-Start 50 ft Tangent
8481.63	0.00	0.00	8410.00	570.00	-744.85	0.00	0.00	570.00		Casing-Start 35 ft. Tangnent
8516.63	0.00	0.00	8445.00	570.00	-744.85	0.00	0.00	570.00		Curve KOP-Build Rate= 13.54°/100' MD
9137.56	84.05	0.00	8866.00	949.40	-744.85	13.54	0.00	949.40		Land Pt. (84.05°) 9138 MD- 8866 TVD
9312.56	84.05	0.00	8884.14	1123.46	-744.85	0.00	0.00	1123.46		Curve Build Rate= 3.00°/100' MD
9412.56	87.05	0.00	8891.90	1223.15	-744.85	3.00	0.00	1223.15		Land Pt. Horz Tgt (87.05°) 9413 MD- 8992 TVD
13722.12	87.05	0.00	9113.69	5527.00	-744.85	0.00	0.00	5527.00		Turn DLS= 2.00/100' MD- TFO -90.01
13735.10	87.05	359.74	9114.36	5539.97	-744.88	2.00	-90.01	5539.97		EOT-Tangent= 4928 ft. at 13735 MD
18662.70	87.05	359.74	9367.95	10460.98	-767.21	0.00	0.00	10460.98		TD-PBHL= 18663 MD- 9368 TVD



Azimuths to True North
Magnetic North: 11.10°

Magnetic Field
Strength: 52161.7snT
Dip Angle: 65.88°
Date: 7/2/2013
Model: IGRF2010

Plan: 13-9-4-3-2WH Rev01 Ute Tribal (13-9-4-3-2WH/13-9-4-3-2WH "UTE TRIBAL")
Created By: Chad Dubois Date: 10:35, July 02 2013

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____

RECEIVED: August 06, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Project DUCHESNE COUNTY, UT (NAD 83),

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 13-9-4-3-2WH, UTE TRIBAL

Well Position	**+N/-S**	-9.88 usft	**Northing:**	7,254,942.12 usft	**Latitude:**	40° 13' 42.680 N
	+E/-W	39,103.44 usft	**Easting:**	2,025,991.43 usft	**Longitude:**	110° 7' 8.300 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,284.00 usft	**Ground Level:**	5,256.00 usft

Wellbore 13-9-4-3-2WH "UTE TRIBAL"

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/2/2013	11.10	65.88	52,162

Design 13-9-4-3-2WH Rev01 Ute Tribal

Audit Notes:

Version:	Rev01	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,202.57	9.04	307.43	2,200.07	28.82	-37.67	1.50	1.50	0.00	307.43	
7,569.06	9.04	307.43	7,499.93	541.18	-707.18	0.00	0.00	0.00	0.00	
8,171.63	0.00	0.00	8,100.00	570.00	-744.85	1.50	-1.50	0.00	180.00	
8,431.63	0.00	0.00	8,360.00	570.00	-744.85	0.00	0.00	0.00	0.00	
8,481.63	0.00	0.00	8,410.00	570.00	-744.85	0.00	0.00	0.00	0.00	
8,516.63	0.00	0.00	8,445.00	570.00	-744.85	0.00	0.00	0.00	0.00	
9,137.56	84.05	0.00	8,866.00	949.40	-744.85	13.54	13.54	0.00	0.00	
9,312.56	84.05	0.00	8,884.14	1,123.46	-744.85	0.00	0.00	0.00	0.00	
9,412.56	87.05	0.00	8,891.90	1,223.15	-744.85	3.00	3.00	0.00	0.00	
13,722.12	87.05	0.00	9,113.69	5,527.00	-744.85	0.00	0.00	0.00	0.00	Pt.-1 (13-9-4-3-2WH
13,735.11	87.05	359.74	9,114.36	5,539.97	-744.88	2.00	0.00	-2.00	-90.01	
18,662.70	87.05	359.74	9,367.95	10,460.98	-767.21	0.00	0.00	0.00	0.00	TD-PBHL (13-9-4-3

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

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Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Tangent= 100 ft. at 1500 MD-TVD									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge KOP- Build Rate= 1.50/100' MD									
1,700.00	1.50	307.43	1,699.99	0.80	-1.04	0.80	1.50	1.50	0.00
1,800.00	3.00	307.43	1,799.91	3.18	-4.16	3.18	1.50	1.50	0.00
1,900.00	4.50	307.43	1,899.69	7.16	-9.35	7.16	1.50	1.50	0.00
2,000.00	6.00	307.43	1,999.27	12.72	-16.62	12.72	1.50	1.50	0.00
2,100.00	7.50	307.43	2,098.57	19.86	-25.95	19.86	1.50	1.50	0.00
2,202.57	9.04	307.43	2,200.07	28.82	-37.67	28.82	1.50	1.50	0.00
EOB-Tangent= 5367 ft at 2203 MD									
2,300.00	9.04	307.43	2,296.29	38.13	-49.82	38.13	0.00	0.00	0.00
2,400.00	9.04	307.43	2,395.05	47.67	-62.30	47.67	0.00	0.00	0.00
2,500.00	9.04	307.43	2,493.81	57.22	-74.77	57.22	0.00	0.00	0.00
2,600.00	9.04	307.43	2,592.57	66.77	-87.25	66.77	0.00	0.00	0.00
2,700.00	9.04	307.43	2,691.33	76.32	-99.73	76.32	0.00	0.00	0.00
2,800.00	9.04	307.43	2,790.09	85.86	-112.20	85.86	0.00	0.00	0.00
2,900.00	9.04	307.43	2,888.84	95.41	-124.68	95.41	0.00	0.00	0.00
3,000.00	9.04	307.43	2,987.60	104.96	-137.15	104.96	0.00	0.00	0.00
3,100.00	9.04	307.43	3,086.36	114.50	-149.63	114.50	0.00	0.00	0.00
3,200.00	9.04	307.43	3,185.12	124.05	-162.10	124.05	0.00	0.00	0.00
3,300.00	9.04	307.43	3,283.88	133.60	-174.58	133.60	0.00	0.00	0.00
3,400.00	9.04	307.43	3,382.64	143.15	-187.06	143.15	0.00	0.00	0.00
3,500.00	9.04	307.43	3,481.39	152.69	-199.53	152.69	0.00	0.00	0.00
3,600.00	9.04	307.43	3,580.15	162.24	-212.01	162.24	0.00	0.00	0.00
3,657.56	9.04	307.43	3,637.00	167.74	-219.19	167.74	0.00	0.00	0.00
Green River Formation									
3,700.00	9.04	307.43	3,678.91	171.79	-224.48	171.79	0.00	0.00	0.00
3,800.00	9.04	307.43	3,777.67	181.33	-236.96	181.33	0.00	0.00	0.00
3,900.00	9.04	307.43	3,876.43	190.88	-249.44	190.88	0.00	0.00	0.00
4,000.00	9.04	307.43	3,975.19	200.43	-261.91	200.43	0.00	0.00	0.00
4,100.00	9.04	307.43	4,073.94	209.98	-274.39	209.98	0.00	0.00	0.00
4,200.00	9.04	307.43	4,172.70	219.52	-286.86	219.52	0.00	0.00	0.00
4,300.00	9.04	307.43	4,271.46	229.07	-299.34	229.07	0.00	0.00	0.00
4,400.00	9.04	307.43	4,370.22	238.62	-311.82	238.62	0.00	0.00	0.00
4,500.00	9.04	307.43	4,468.98	248.17	-324.29	248.17	0.00	0.00	0.00

RECEIVED: August 06, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

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Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
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Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	9.04	307.43	4,567.74	257.71	-336.77	257.71	0.00	0.00	0.00
4,700.00	9.04	307.43	4,666.49	267.26	-349.24	267.26	0.00	0.00	0.00
4,800.00	9.04	307.43	4,765.25	276.81	-361.72	276.81	0.00	0.00	0.00
4,900.00	9.04	307.43	4,864.01	286.35	-374.19	286.35	0.00	0.00	0.00
5,000.00	9.04	307.43	4,962.77	295.90	-386.67	295.90	0.00	0.00	0.00
5,100.00	9.04	307.43	5,061.53	305.45	-399.15	305.45	0.00	0.00	0.00
5,200.00	9.04	307.43	5,160.28	315.00	-411.62	315.00	0.00	0.00	0.00
5,300.00	9.04	307.43	5,259.04	324.54	-424.10	324.54	0.00	0.00	0.00
5,400.00	9.04	307.43	5,357.80	334.09	-436.57	334.09	0.00	0.00	0.00
5,500.00	9.04	307.43	5,456.56	343.64	-449.05	343.64	0.00	0.00	0.00
5,600.00	9.04	307.43	5,555.32	353.19	-461.53	353.19	0.00	0.00	0.00
5,681.70	9.04	307.43	5,636.00	360.98	-471.72	360.98	0.00	0.00	0.00
Trona									
5,700.00	9.04	307.43	5,654.08	362.73	-474.00	362.73	0.00	0.00	0.00
5,727.26	9.04	307.43	5,681.00	365.34	-477.40	365.34	0.00	0.00	0.00
Mahogany Bench									
5,800.00	9.04	307.43	5,752.83	372.28	-486.48	372.28	0.00	0.00	0.00
5,900.00	9.04	307.43	5,851.59	381.83	-498.95	381.83	0.00	0.00	0.00
6,000.00	9.04	307.43	5,950.35	391.37	-511.43	391.37	0.00	0.00	0.00
6,100.00	9.04	307.43	6,049.11	400.92	-523.91	400.92	0.00	0.00	0.00
6,200.00	9.04	307.43	6,147.87	410.47	-536.38	410.47	0.00	0.00	0.00
6,300.00	9.04	307.43	6,246.63	420.02	-548.86	420.02	0.00	0.00	0.00
6,400.00	9.04	307.43	6,345.38	429.56	-561.33	429.56	0.00	0.00	0.00
6,500.00	9.04	307.43	6,444.14	439.11	-573.81	439.11	0.00	0.00	0.00
6,600.00	9.04	307.43	6,542.90	448.66	-586.29	448.66	0.00	0.00	0.00
6,632.50	9.04	307.43	6,575.00	451.76	-590.34	451.76	0.00	0.00	0.00
Garden Gulch Member									
6,700.00	9.04	307.43	6,641.66	458.20	-598.76	458.20	0.00	0.00	0.00
6,800.00	9.04	307.43	6,740.42	467.75	-611.24	467.75	0.00	0.00	0.00
6,900.00	9.04	307.43	6,839.18	477.30	-623.71	477.30	0.00	0.00	0.00
6,910.96	9.04	307.43	6,850.00	478.35	-625.08	478.35	0.00	0.00	0.00
Garden Gulch Member-1									
7,000.00	9.04	307.43	6,937.93	486.85	-636.19	486.85	0.00	0.00	0.00
7,097.27	9.04	307.43	7,034.00	496.13	-648.32	496.13	0.00	0.00	0.00
Garden Gulch Member-2									
7,100.00	9.04	307.43	7,036.69	496.39	-648.66	496.39	0.00	0.00	0.00
7,200.00	9.04	307.43	7,135.45	505.94	-661.14	505.94	0.00	0.00	0.00
7,300.00	9.04	307.43	7,234.21	515.49	-673.62	515.49	0.00	0.00	0.00
7,400.00	9.04	307.43	7,332.97	525.04	-686.09	525.04	0.00	0.00	0.00
7,500.00	9.04	307.43	7,431.73	534.58	-698.57	534.58	0.00	0.00	0.00
7,569.06	9.04	307.43	7,499.93	541.18	-707.18	541.18	0.00	0.00	0.00
Nudge Drop Rate= -1.50/100' MD									
7,600.00	8.57	307.43	7,530.50	544.05	-710.95	544.05	1.50	-1.50	0.00
7,700.00	7.07	307.43	7,629.57	552.33	-721.76	552.33	1.50	-1.50	0.00
7,800.00	5.57	307.43	7,728.96	559.02	-730.50	559.02	1.50	-1.50	0.00
7,891.43	4.20	307.43	7,820.05	563.76	-736.69	563.76	1.50	-1.50	0.00
Douglas Creek Member									
7,900.00	4.07	307.43	7,828.60	564.13	-737.18	564.13	1.50	-1.50	0.00
8,000.00	2.57	307.43	7,928.43	567.66	-741.79	567.66	1.50	-1.50	0.00
8,100.00	1.07	307.43	8,028.38	569.59	-744.32	569.59	1.50	-1.50	0.00
8,171.63	0.00	0.00	8,100.00	570.00	-744.85	570.00	1.50	-1.50	0.00

LEAM Drilling Systems LLC

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Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

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Nudge Vert. Pt.= 8172 MD- 8100 TVD									
8,200.00	0.00	0.00	8,128.37	570.00	-744.85	570.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,228.37	570.00	-744.85	570.00	0.00	0.00	0.00
B Limestone									
8,400.00	0.00	0.00	8,328.37	570.00	-744.85	570.00	0.00	0.00	0.00
8,431.63	0.00	0.00	8,360.00	570.00	-744.85	570.00	0.00	0.00	0.00
Top Lower Black Shale-Start 50 ft Tangent									
8,435.00	0.00	0.00	8,363.37	570.00	-744.85	570.00	0.00	0.00	0.00
Lower Black Shale									
8,481.63	0.00	0.00	8,410.00	570.00	-744.85	570.00	0.00	0.00	0.00
Casing-Start 35 ft. Tangnent - Casing									
8,500.00	0.00	0.00	8,428.37	570.00	-744.85	570.00	0.00	0.00	0.00
8,516.63	0.00	0.00	8,445.00	570.00	-744.85	570.00	0.00	0.00	0.00
Curve KOP-Build Rate= 13.54°/100' MD									
8,525.00	1.13	0.00	8,453.37	570.08	-744.85	570.08	13.54	13.54	0.00
8,550.00	4.52	0.00	8,478.34	571.31	-744.85	571.31	13.54	13.54	0.00
8,575.00	7.90	0.00	8,503.19	574.02	-744.85	574.02	13.54	13.54	0.00
8,582.53	8.92	0.00	8,510.64	575.12	-744.85	575.12	13.54	13.54	0.00
Castle Peak Limestone									
8,600.00	11.29	0.00	8,527.83	578.18	-744.85	578.18	13.54	13.54	0.00
8,625.00	14.67	0.00	8,552.19	583.80	-744.85	583.80	13.54	13.54	0.00
8,650.00	18.05	0.00	8,576.18	590.84	-744.85	590.84	13.54	13.54	0.00
8,675.00	21.44	0.00	8,599.70	599.28	-744.85	599.28	13.54	13.54	0.00
8,700.00	24.82	0.00	8,622.69	609.10	-744.85	609.10	13.54	13.54	0.00
8,725.00	28.21	0.00	8,645.06	620.26	-744.85	620.26	13.54	13.54	0.00
8,750.00	31.59	0.00	8,666.73	632.72	-744.85	632.72	13.54	13.54	0.00
8,757.17	32.56	0.00	8,672.80	636.53	-744.85	636.53	13.54	13.54	0.00
CP LIMES_2									
8,775.00	34.97	0.00	8,687.62	646.44	-744.85	646.44	13.54	13.54	0.00
8,800.00	38.36	0.00	8,707.67	661.36	-744.85	661.36	13.54	13.54	0.00
8,825.00	41.74	0.00	8,726.81	677.45	-744.85	677.45	13.54	13.54	0.00
8,850.00	45.13	0.00	8,744.96	694.63	-744.85	694.63	13.54	13.54	0.00
8,875.00	48.51	0.00	8,762.07	712.86	-744.85	712.86	13.54	13.54	0.00
8,900.00	51.89	0.00	8,778.07	732.06	-744.85	732.06	13.54	13.54	0.00
8,925.00	55.28	0.00	8,792.90	752.18	-744.85	752.18	13.54	13.54	0.00
8,944.42	57.91	0.00	8,803.60	768.39	-744.85	768.39	13.54	13.54	0.00
Uteland Butte									
8,950.00	58.66	0.00	8,806.53	773.14	-744.85	773.14	13.54	13.54	0.00
8,965.92	60.82	0.00	8,814.55	786.89	-744.85	786.89	13.54	13.54	0.00
U.B.-- A									
8,975.00	62.05	0.00	8,818.89	794.86	-744.85	794.86	13.54	13.54	0.00
9,000.00	65.43	0.00	8,829.95	817.28	-744.85	817.28	13.54	13.54	0.00
9,000.44	65.49	0.00	8,830.14	817.68	-744.85	817.68	13.54	13.54	0.00
U.B.-- B									
9,025.00	68.81	0.00	8,839.67	840.31	-744.85	840.31	13.54	13.54	0.00
9,050.00	72.20	0.00	8,848.01	863.87	-744.85	863.87	13.54	13.54	0.00
9,075.00	75.58	0.00	8,854.95	887.89	-744.85	887.89	13.54	13.54	0.00
9,100.00	78.97	0.00	8,860.46	912.27	-744.85	912.27	13.54	13.54	0.00
9,125.00	82.35	0.00	8,864.51	936.93	-744.85	936.93	13.54	13.54	0.00
9,136.18	83.86	0.00	8,865.85	948.03	-744.85	948.03	13.54	13.54	0.00
U.B.-- C_Land Pt (84.05°)									

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,137.56	84.05	0.00	8,866.00	949.40	-744.85	949.40	13.54	13.54	0.00
Land Pt. (84.05°) 9138 MD- 8866 TVD									
9,200.00	84.05	0.00	8,872.47	1,011.51	-744.85	1,011.51	0.00	0.00	0.00
9,300.00	84.05	0.00	8,882.84	1,110.97	-744.85	1,110.97	0.00	0.00	0.00
9,312.56	84.05	0.00	8,884.14	1,123.46	-744.85	1,123.46	0.00	0.00	0.00
Curve Build Rate= 3.00°/100' MD									
9,400.00	86.67	0.00	8,891.21	1,210.61	-744.85	1,210.61	3.00	3.00	0.00
9,412.56	87.05	0.00	8,891.90	1,223.15	-744.85	1,223.15	3.00	3.00	0.00
Land Pt. Horz Tgt (87.05°) 9413 MD- 8992 TVD									
9,500.00	87.05	0.00	8,896.40	1,310.47	-744.85	1,310.47	0.00	0.00	0.00
9,600.00	87.05	0.00	8,901.55	1,410.34	-744.85	1,410.34	0.00	0.00	0.00
9,700.00	87.05	0.00	8,906.69	1,510.21	-744.85	1,510.21	0.00	0.00	0.00
9,800.00	87.05	0.00	8,911.84	1,610.08	-744.85	1,610.08	0.00	0.00	0.00
9,900.00	87.05	0.00	8,916.98	1,709.94	-744.85	1,709.94	0.00	0.00	0.00
10,000.00	87.05	0.00	8,922.13	1,809.81	-744.85	1,809.81	0.00	0.00	0.00
10,100.00	87.05	0.00	8,927.28	1,909.68	-744.85	1,909.68	0.00	0.00	0.00
10,200.00	87.05	0.00	8,932.42	2,009.55	-744.85	2,009.55	0.00	0.00	0.00
10,300.00	87.05	0.00	8,937.57	2,109.41	-744.85	2,109.41	0.00	0.00	0.00
10,400.00	87.05	0.00	8,942.72	2,209.28	-744.85	2,209.28	0.00	0.00	0.00
10,500.00	87.05	0.00	8,947.86	2,309.15	-744.85	2,309.15	0.00	0.00	0.00
10,600.00	87.05	0.00	8,953.01	2,409.02	-744.85	2,409.02	0.00	0.00	0.00
10,700.00	87.05	0.00	8,958.16	2,508.88	-744.85	2,508.88	0.00	0.00	0.00
10,800.00	87.05	0.00	8,963.30	2,608.75	-744.85	2,608.75	0.00	0.00	0.00
10,900.00	87.05	0.00	8,968.45	2,708.62	-744.85	2,708.62	0.00	0.00	0.00
11,000.00	87.05	0.00	8,973.60	2,808.49	-744.85	2,808.49	0.00	0.00	0.00
11,100.00	87.05	0.00	8,978.74	2,908.35	-744.85	2,908.35	0.00	0.00	0.00
11,200.00	87.05	0.00	8,983.89	3,008.22	-744.85	3,008.22	0.00	0.00	0.00
11,300.00	87.05	0.00	8,989.03	3,108.09	-744.85	3,108.09	0.00	0.00	0.00
11,400.00	87.05	0.00	8,994.18	3,207.96	-744.85	3,207.96	0.00	0.00	0.00
11,500.00	87.05	0.00	8,999.33	3,307.82	-744.85	3,307.82	0.00	0.00	0.00
11,600.00	87.05	0.00	9,004.47	3,407.69	-744.85	3,407.69	0.00	0.00	0.00
11,700.00	87.05	0.00	9,009.62	3,507.56	-744.85	3,507.56	0.00	0.00	0.00
11,800.00	87.05	0.00	9,014.77	3,607.43	-744.85	3,607.43	0.00	0.00	0.00
11,900.00	87.05	0.00	9,019.91	3,707.29	-744.85	3,707.29	0.00	0.00	0.00
12,000.00	87.05	0.00	9,025.06	3,807.16	-744.85	3,807.16	0.00	0.00	0.00
12,100.00	87.05	0.00	9,030.21	3,907.03	-744.85	3,907.03	0.00	0.00	0.00
12,200.00	87.05	0.00	9,035.35	4,006.89	-744.85	4,006.89	0.00	0.00	0.00
12,300.00	87.05	0.00	9,040.50	4,106.76	-744.85	4,106.76	0.00	0.00	0.00
12,400.00	87.05	0.00	9,045.65	4,206.63	-744.85	4,206.63	0.00	0.00	0.00
12,500.00	87.05	0.00	9,050.79	4,306.50	-744.85	4,306.50	0.00	0.00	0.00
12,600.00	87.05	0.00	9,055.94	4,406.36	-744.85	4,406.36	0.00	0.00	0.00
12,700.00	87.05	0.00	9,061.09	4,506.23	-744.85	4,506.23	0.00	0.00	0.00
12,800.00	87.05	0.00	9,066.23	4,606.10	-744.85	4,606.10	0.00	0.00	0.00
12,900.00	87.05	0.00	9,071.38	4,705.97	-744.85	4,705.97	0.00	0.00	0.00
13,000.00	87.05	0.00	9,076.52	4,805.83	-744.85	4,805.83	0.00	0.00	0.00
13,100.00	87.05	0.00	9,081.67	4,905.70	-744.85	4,905.70	0.00	0.00	0.00
13,200.00	87.05	0.00	9,086.82	5,005.57	-744.85	5,005.57	0.00	0.00	0.00
13,300.00	87.05	0.00	9,091.96	5,105.44	-744.85	5,105.44	0.00	0.00	0.00
13,400.00	87.05	0.00	9,097.11	5,205.30	-744.85	5,205.30	0.00	0.00	0.00
13,500.00	87.05	0.00	9,102.26	5,305.17	-744.85	5,305.17	0.00	0.00	0.00
13,600.00	87.05	0.00	9,107.40	5,405.04	-744.85	5,405.04	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,700.00	87.05	0.00	9,112.55	5,504.91	-744.85	5,504.91	0.00	0.00	0.00
13,722.12	87.05	0.00	9,113.69	5,527.00	-744.85	5,527.00	0.00	0.00	0.00
Turn DLS= 2.00/100' MD- TFO -90.01									
13,735.11	87.05	359.74	9,114.36	5,539.97	-744.88	5,539.97	2.00	0.00	-2.00
EOT-Tangent= 4928 ft. at 13735 MD									
13,800.00	87.05	359.74	9,117.70	5,604.77	-745.17	5,604.77	0.00	0.00	0.00
13,900.00	87.05	359.74	9,122.84	5,704.64	-745.63	5,704.64	0.00	0.00	0.00
14,000.00	87.05	359.74	9,127.99	5,804.51	-746.08	5,804.51	0.00	0.00	0.00
14,100.00	87.05	359.74	9,133.14	5,904.37	-746.53	5,904.37	0.00	0.00	0.00
14,200.00	87.05	359.74	9,138.28	6,004.24	-746.99	6,004.24	0.00	0.00	0.00
14,300.00	87.05	359.74	9,143.43	6,104.11	-747.44	6,104.11	0.00	0.00	0.00
14,400.00	87.05	359.74	9,148.57	6,203.97	-747.89	6,203.97	0.00	0.00	0.00
14,500.00	87.05	359.74	9,153.72	6,303.84	-748.35	6,303.84	0.00	0.00	0.00
14,600.00	87.05	359.74	9,158.87	6,403.71	-748.80	6,403.71	0.00	0.00	0.00
14,700.00	87.05	359.74	9,164.01	6,503.57	-749.25	6,503.57	0.00	0.00	0.00
14,800.00	87.05	359.74	9,169.16	6,603.44	-749.71	6,603.44	0.00	0.00	0.00
14,900.00	87.05	359.74	9,174.31	6,703.31	-750.16	6,703.31	0.00	0.00	0.00
15,000.00	87.05	359.74	9,179.45	6,803.17	-750.61	6,803.17	0.00	0.00	0.00
15,100.00	87.05	359.74	9,184.60	6,903.04	-751.06	6,903.04	0.00	0.00	0.00
15,200.00	87.05	359.74	9,189.75	7,002.90	-751.52	7,002.90	0.00	0.00	0.00
15,300.00	87.05	359.74	9,194.89	7,102.77	-751.97	7,102.77	0.00	0.00	0.00
15,400.00	87.05	359.74	9,200.04	7,202.64	-752.42	7,202.64	0.00	0.00	0.00
15,500.00	87.05	359.74	9,205.19	7,302.50	-752.88	7,302.50	0.00	0.00	0.00
15,600.00	87.05	359.74	9,210.33	7,402.37	-753.33	7,402.37	0.00	0.00	0.00
15,700.00	87.05	359.74	9,215.48	7,502.24	-753.78	7,502.24	0.00	0.00	0.00
15,800.00	87.05	359.74	9,220.63	7,602.10	-754.24	7,602.10	0.00	0.00	0.00
15,900.00	87.05	359.74	9,225.77	7,701.97	-754.69	7,701.97	0.00	0.00	0.00
16,000.00	87.05	359.74	9,230.92	7,801.84	-755.14	7,801.84	0.00	0.00	0.00
16,100.00	87.05	359.74	9,236.06	7,901.70	-755.60	7,901.70	0.00	0.00	0.00
16,200.00	87.05	359.74	9,241.21	8,001.57	-756.05	8,001.57	0.00	0.00	0.00
16,300.00	87.05	359.74	9,246.36	8,101.44	-756.50	8,101.44	0.00	0.00	0.00
16,400.00	87.05	359.74	9,251.50	8,201.30	-756.96	8,201.30	0.00	0.00	0.00
16,500.00	87.05	359.74	9,256.65	8,301.17	-757.41	8,301.17	0.00	0.00	0.00
16,600.00	87.05	359.74	9,261.80	8,401.03	-757.86	8,401.03	0.00	0.00	0.00
16,700.00	87.05	359.74	9,266.94	8,500.90	-758.32	8,500.90	0.00	0.00	0.00
16,800.00	87.05	359.74	9,272.09	8,600.77	-758.77	8,600.77	0.00	0.00	0.00
16,900.00	87.05	359.74	9,277.24	8,700.63	-759.22	8,700.63	0.00	0.00	0.00
17,000.00	87.05	359.74	9,282.38	8,800.50	-759.68	8,800.50	0.00	0.00	0.00
17,100.00	87.05	359.74	9,287.53	8,900.37	-760.13	8,900.37	0.00	0.00	0.00
17,200.00	87.05	359.74	9,292.68	9,000.23	-760.58	9,000.23	0.00	0.00	0.00
17,300.00	87.05	359.74	9,297.82	9,100.10	-761.03	9,100.10	0.00	0.00	0.00
17,400.00	87.05	359.74	9,302.97	9,199.97	-761.49	9,199.97	0.00	0.00	0.00
17,500.00	87.05	359.74	9,308.11	9,299.83	-761.94	9,299.83	0.00	0.00	0.00
17,600.00	87.05	359.74	9,313.26	9,399.70	-762.39	9,399.70	0.00	0.00	0.00
17,700.00	87.05	359.74	9,318.41	9,499.57	-762.85	9,499.57	0.00	0.00	0.00
17,800.00	87.05	359.74	9,323.55	9,599.43	-763.30	9,599.43	0.00	0.00	0.00
17,900.00	87.05	359.74	9,328.70	9,699.30	-763.75	9,699.30	0.00	0.00	0.00
18,000.00	87.05	359.74	9,333.85	9,799.17	-764.21	9,799.17	0.00	0.00	0.00
18,100.00	87.05	359.74	9,338.99	9,899.03	-764.66	9,899.03	0.00	0.00	0.00
18,200.00	87.05	359.74	9,344.14	9,998.90	-765.11	9,998.90	0.00	0.00	0.00
18,300.00	87.05	359.74	9,349.29	10,098.76	-765.57	10,098.76	0.00	0.00	0.00
18,400.00	87.05	359.74	9,354.43	10,198.63	-766.02	10,198.63	0.00	0.00	0.00

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Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,500.00	87.05	359.74	9,359.58	10,298.50	-766.47	10,298.50	0.00	0.00	0.00
18,600.00	87.05	359.74	9,364.73	10,398.36	-766.93	10,398.36	0.00	0.00	0.00
18,662.70	87.05	359.74	9,367.95	10,460.98	-767.21	10,460.98	0.00	0.00	0.00
TD-PBHL= 18663 MD- 9368 TVD									

RECEIVED: August 06, 2013

LEAM Drilling Systems LLC

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Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEC. 9, T3S-R2W, SE	0.00	0.00	0.00	561.67	-794.86	7,255,491.45	2,025,188.00	40° 13' 48.231 N	110° 7' 18.549 W
- plan misses target center by 973.28usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	0.00	0.00	7,255,491.45	2,025,188.00		
Point 2			0.00	143.13	3,967.68	7,255,695.82	2,029,152.99		
Point 3			0.00	143.13	3,967.68	7,255,695.82	2,029,152.99		
Point 4			0.00	0.00	0.00	7,255,491.45	2,025,188.00		
Sec. 4, T3S-R2W,	0.00	0.00	0.00	5,512.73	-1,454.64	7,260,431.73	2,024,451.85	40° 14' 37.160 N	110° 7' 27.060 W
- plan misses target center by 5701.42usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	0.00	0.00	7,260,431.73	2,024,451.85		
Point 2			0.00	2,636.94	-9.16	7,263,068.22	2,024,401.97		
Point 3			0.00	3,967.55	-11.40	7,264,398.63	2,024,379.19		
Point 4			0.00	5,284.00	-17.53	7,265,714.83	2,024,352.73		
Point 5			0.00	5,308.24	1,301.92	7,265,759.44	2,025,671.65		
Point 6			0.00	5,332.56	2,628.35	7,265,804.24	2,026,997.55		
Point 7			0.00	5,347.84	3,947.79	7,265,839.89	2,028,316.60		
Point 8			0.00	5,363.18	5,267.23	7,265,875.60	2,029,635.64		
Point 9			0.00	2,745.45	5,284.69	7,263,258.45	2,029,693.52		
Point 10			0.00	107.50	5,289.75	7,260,620.89	2,029,739.31		
Point 11			0.00	47.54	2,661.94	7,260,520.37	2,027,112.73		
Point 12			0.00	0.00	0.00	7,260,431.73	2,024,451.85		
SEC. 4 & 9, T3S-R2W	0.00	0.00	0.00	561.67	-794.86	7,255,491.45	2,025,188.00	40° 13' 48.231 N	110° 7' 18.549 W
- plan misses target center by 973.28usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	0.00	0.00	7,255,491.45	2,025,188.00		
Point 2			0.00	356.12	5.36	7,255,847.61	2,025,187.86		
Point 3			0.00	1,106.93	16.23	7,256,598.50	2,025,187.13		
Point 4			0.00	4,303.43	2.38	7,259,794.41	2,025,123.93		
Point 5			0.00	5,622.90	-2.24	7,261,113.65	2,025,098.94		
Point 6			0.00	7,589.99	-9.15	7,263,080.40	2,025,061.66		
Point 7			0.00	8,920.60	-11.43	7,264,410.81	2,025,038.84		
Point 8			0.00	9,587.43	-14.51	7,265,077.52	2,025,025.46		
Point 9			0.00	9,895.08	-22.49	7,265,385.01	2,025,012.73		
Point 10			0.00	9,895.08	-22.49	7,265,385.01	2,025,012.73		
Point 11			0.00	9,587.43	-14.51	7,265,077.52	2,025,025.46		
Point 12			0.00	8,920.60	-11.43	7,264,410.81	2,025,038.84		
Point 13			0.00	7,589.99	-9.15	7,263,080.40	2,025,061.66		
Point 14			0.00	5,622.90	-2.24	7,261,113.65	2,025,098.94		
Point 15			0.00	4,303.43	2.38	7,259,794.41	2,025,123.93		
Point 16			0.00	1,106.93	16.23	7,256,598.50	2,025,187.13		
Point 17			0.00	356.12	5.36	7,255,847.61	2,025,187.86		
Point 18			0.00	0.00	0.00	7,255,491.45	2,025,188.00		
Sec. 16, T3S-R2W,	0.00	0.00	0.00	241.90	-1,459.61	7,255,161.45	2,024,528.26	40° 13' 45.070 N	110° 7' 27.120 W
- plan misses target center by 1479.52usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	0.00	0.00	7,255,161.45	2,024,528.26		
Point 2			0.00	122.68	5,291.64	7,255,365.82	2,029,817.37		
Point 3			0.00	-5,221.97	5,420.46	7,250,023.79	2,030,028.69		
Point 4			0.00	-5,274.86	2,788.43	7,249,930.27	2,027,397.79		
Point 5			0.00	-5,296.15	1,486.77	7,249,888.89	2,026,096.62		
Point 6			0.00	-5,282.96	164.15	7,249,881.66	2,024,773.95		
Point 7			0.00	-2,644.01	82.85	7,252,519.04	2,024,651.92		
Point 8			0.00	0.00	0.00	7,255,161.45	2,024,528.26		

RECEIVED: August 06, 2013

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

SEC. 4 & 9, T3S-R2W	0.00	0.00	0.00	704.80	3,172.83	7,255,695.82	2,029,153.00	40° 13' 49.643 N	110° 6' 27.389 W
- plan misses target center by 3250.16usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				0.00	0.00	0.00	7,255,695.82	2,029,153.00	
Point 2				0.00	304.25	-0.10	7,256,000.03	2,029,148.20	
Point 3				0.00	4,240.43	1.73	7,259,935.77	2,029,089.25	
Point 4				0.00	5,559.90	0.78	7,261,255.07	2,029,067.93	
Point 5				0.00	7,551.27	-2.57	7,263,246.15	2,029,033.84	
Point 6				0.00	9,504.19	-15.22	7,265,198.64	2,028,991.04	
Point 7				0.00	9,851.74	-24.90	7,265,546.00	2,028,975.99	
Point 8				0.00	9,851.74	-24.90	7,265,546.00	2,028,975.99	
Point 9				0.00	9,504.19	-15.22	7,265,198.64	2,028,991.04	
Point 10				0.00	7,551.27	-2.57	7,263,246.15	2,029,033.84	
Point 11				0.00	5,559.90	0.78	7,261,255.07	2,029,067.93	
Point 12				0.00	4,240.43	1.73	7,259,935.77	2,029,089.25	
Point 13				0.00	304.25	-0.10	7,256,000.03	2,029,148.20	
Point 14				0.00	0.00	0.00	7,255,695.82	2,029,153.00	
Sec. 9, T3S-R2W,	0.00	0.00	0.00	241.90	-1,459.61	7,255,161.45	2,024,528.26	40° 13' 45.070 N	110° 7' 27.120 W
- plan misses target center by 1479.52usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				0.00	0.00	0.00	7,255,161.45	2,024,528.26	
Point 2				0.00	1,429.77	21.03	7,256,591.38	2,024,527.21	
Point 3				0.00	5,270.83	4.97	7,260,431.73	2,024,451.85	
Point 4				0.00	5,318.37	2,666.91	7,260,520.36	2,027,112.73	
Point 5				0.00	5,378.33	5,294.72	7,260,620.89	2,029,739.31	
Point 6				0.00	122.68	5,291.64	7,255,365.82	2,029,817.37	
SEC2. 4, T3S-R2W, S	0.00	0.00	0.00	10,456.75	-817.34	7,265,385.00	2,025,012.74	40° 15' 26.020 N	110° 7' 18.843 W
- plan misses target center by 9355.47usft at 18176.59usft MD (9342.93 TVD, 9975.51 N, -765.01 E)									
- Polygon									
Point 1				0.00	0.00	0.00	7,265,385.00	2,025,012.74	
Point 2				0.00	34.26	659.87	7,265,429.45	2,025,672.00	
Point 3				0.00	58.57	1,986.40	7,265,474.23	2,026,997.99	
Point 4				0.00	73.85	3,305.79	7,265,509.88	2,028,316.99	
Point 5				0.00	99.79	3,965.27	7,265,546.00	2,028,975.99	
Point 6				0.00	99.79	3,965.27	7,265,546.00	2,028,975.99	
Point 7				0.00	73.85	3,305.79	7,265,509.88	2,028,316.99	
Point 8				0.00	58.57	1,986.40	7,265,474.23	2,026,997.99	
Point 9				0.00	34.26	659.87	7,265,429.45	2,025,672.00	
Point 10				0.00	0.00	0.00	7,265,385.00	2,025,012.74	
Top Production (13-9-	0.00	359.20	8,846.00	563.50	-744.85	7,255,494.05	2,025,237.96	40° 13' 48.249 N	110° 7' 17.904 W
- plan misses target center by 164.53usft at 8833.21usft MD (8732.88 TVD, 682.98 N, -744.85 E)									
- Rectangle (sides W0.00 H0.00 D1,500.00)									
Pt.-1 (13-9-4-3-2WH)	0.00	0.00	9,114.00	5,527.00	-744.52	7,260,456.97	2,025,161.66	40° 14' 37.301 N	110° 7' 17.902 W
- plan misses target center by 0.45usft at 13722.14usft MD (9113.69 TVD, 5527.02 N, -744.85 E)									
- Point									
TD-PBHL (13-9-4-3-2'	0.00	359.20	9,368.00	10,460.98	-767.27	7,265,390.00	2,025,062.74	40° 15' 26.062 N	110° 7' 18.197 W
- plan misses target center by 0.08usft at 18662.70usft MD (9367.95 TVD, 10460.98 N, -767.21 E)									
- Point									

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5256'+28'= 5284' MSL) @ 5284.00usft (Pioneer 78 (KB= 28'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	13-9-4-3-2WH "UTE TRIBAL"		
Design:	13-9-4-3-2WH Rev01 Ute Tribal		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,657.56	3,637.00	Green River Formation		0.00	0.00
5,681.70	5,636.00	Trona		0.00	0.00
5,727.26	5,681.00	Mahogany Bench		0.00	0.00
6,632.50	6,575.00	Garden Gulch Member		0.00	0.00
6,910.96	6,850.00	Garden Gulch Member-1		0.00	0.00
7,097.27	7,034.00	Garden Gulch Member-2		0.00	0.00
7,891.43	7,820.05	Douglas Creek Member		2.95	0.00
8,300.00	8,228.37	B Limestone		2.95	0.00
8,435.00	8,363.37	Lower Black Shale		2.95	0.00
8,582.53	8,510.64	Castle Peak Limestone		2.95	0.00
8,757.17	8,672.80	CP LIMES_2		2.95	0.00
8,944.42	8,803.60	Uteland Butte		2.95	0.00
8,965.92	8,814.55	U.B.-- A		2.95	0.00
9,000.44	8,830.14	U.B.-- B		2.95	0.00
9,136.18	8,865.85	U.B.-- C_Land Pt (84.05°)		2.95	0.00

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.00	1,500.00	0.00	0.00	Tangent= 100 ft. at 1500 MD-TVD
1,600.00	1,600.00	0.00	0.00	Nudge KOP- Build Rate= 1.50/100' MD
2,202.57	2,200.07	28.82	-37.67	EOB-Tangent= 5367 ft at 2203 MD
7,569.06	7,499.93	541.18	-707.18	Nudge Drop Rate= -1.50/100' MD
8,171.63	8,100.00	570.00	-744.85	Nudge Vert. Pt.= 8172 MD- 8100 TVD
8,431.63	8,360.00	570.00	-744.85	Top Lower Black Shale-Start 50 ft Tangent
8,481.63	8,410.00	570.00	-744.85	Casing-Start 35 ft. Tangnent
8,516.63	8,445.00	570.00	-744.85	Curve KOP-Build Rate= 13.54°/100' MD
9,137.56	8,866.00	949.40	-744.85	Land Pt. (84.05°) 9138 MD- 8866 TVD
9,312.56	8,884.14	1,123.46	-744.85	Curve Build Rate= 3.00°/100' MD
9,412.56	8,891.90	1,223.15	-744.85	Land Pt. Horz Tgt (87.05°) 9413 MD- 8992 TVD
13,722.12	9,113.69	5,527.00	-744.85	Turn DLS= 2.00/100' MD- TFO -90.01
13,735.11	9,114.36	5,539.97	-744.88	EOT-Tangent= 4928 ft. at 13735 MD
18,662.70	9,367.95	10,460.98	-767.21	TD-PBHL= 18663 MD- 9368 TVD

RECEIVED: August 06, 2013

API Well Number: 43013520790000

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Peter Burns personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Peter Burns. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed UT 3-16-3-2WH well with a surface location to be positioned in the NENW of Section 16, Township 3 South, Range 2 West (the "Drillsite Location"), and a bottom hole location to be positioned in the SESW of Section 16, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Murray Sheep Ranch, LLC, whose address is P.O. Box 96, Myton, UT 84052 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated October 3, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

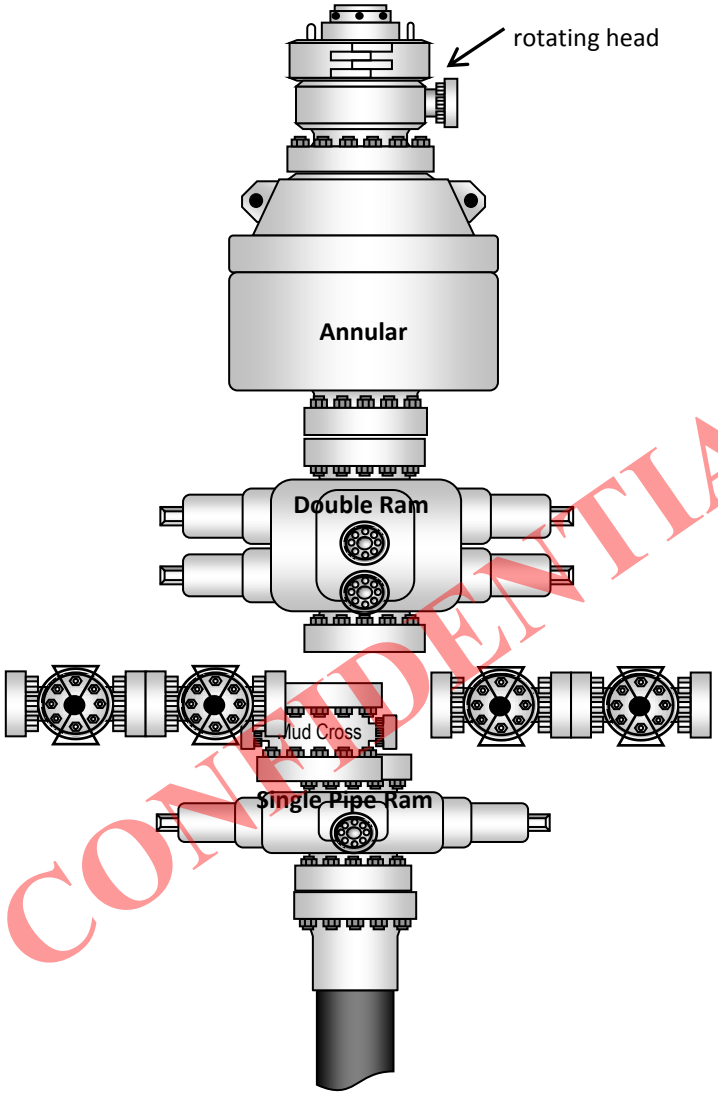
STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 15th day of November, 2012, personally appeared Peter Burns, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

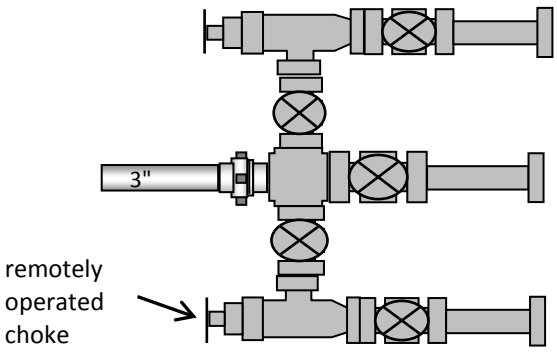
NOTARY PUBLIC

My Commission Expires:

Typical 10M BOP stack configuration



Typical 10M choke manifold configuration



RECEIVED: March 06, 2013

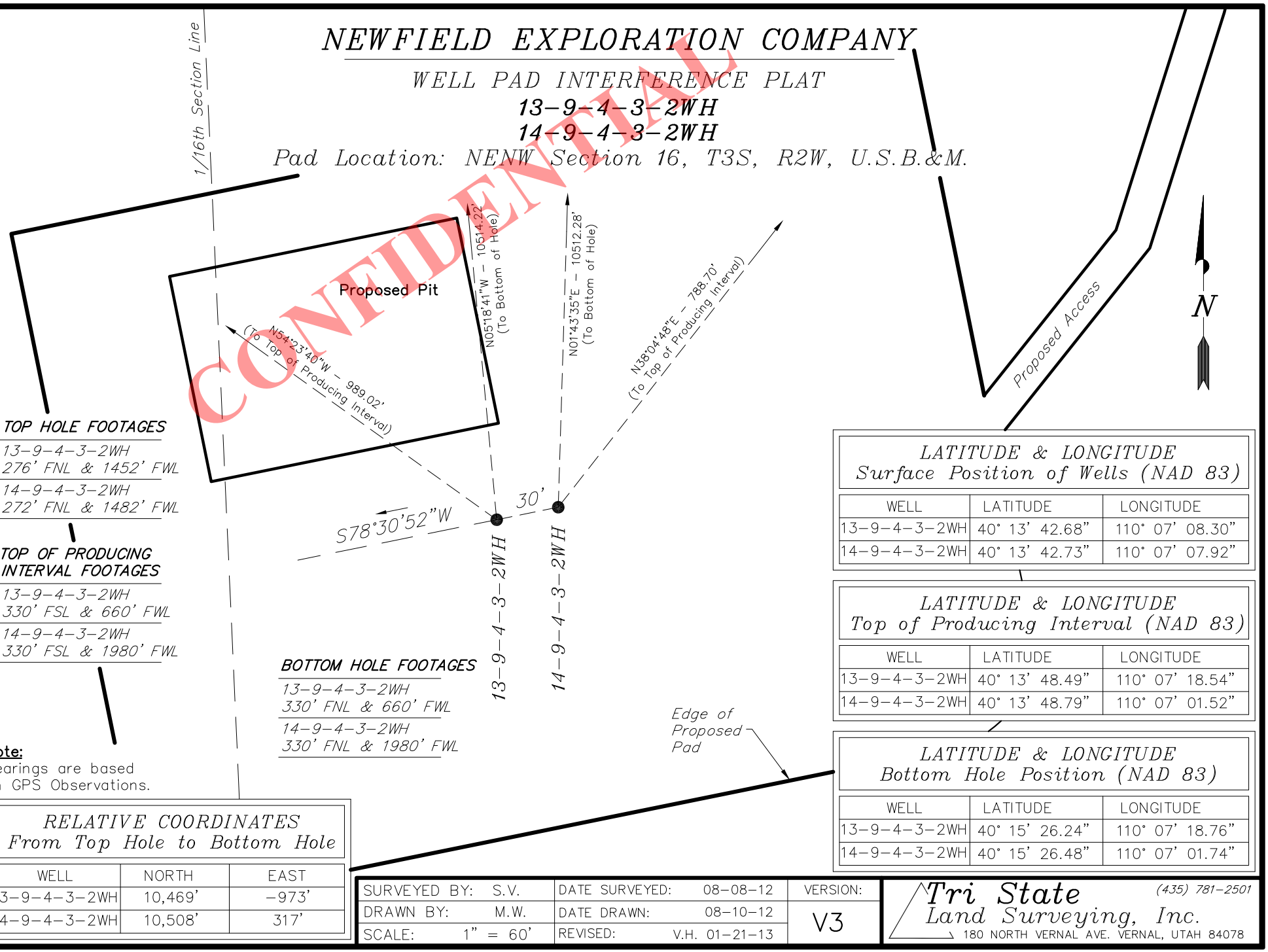
API Well Number: 43013520790000

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

13-9-4-3-2WH
14-9-4-3-2WH

Pad Location: NENW Section 16, T3S, R2W, U.S.B.&M.



TOP HOLE FOOTAGES

13-9-4-3-2WH
276' FNL & 1452' FWL

14-9-4-3-2WH
272' FNL & 1482' FWL

TOP OF PRODUCING INTERVAL FOOTAGES

13-9-4-3-2WH
330' FSL & 660' FWL

14-9-4-3-2WH
330' FSL & 1980' FWL

BOTTOM HOLE FOOTAGES

13-9-4-3-2WH
330' FNL & 660' FWL

14-9-4-3-2WH
330' FNL & 1980' FWL

Note:
Bearings are based on GPS Observations.

LATITUDE & LONGITUDE
Surface Position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
13-9-4-3-2WH	40° 13' 42.68"	110° 07' 08.30"
14-9-4-3-2WH	40° 13' 42.73"	110° 07' 07.92"

LATITUDE & LONGITUDE
Top of Producing Interval (NAD 83)

WELL	LATITUDE	LONGITUDE
13-9-4-3-2WH	40° 13' 48.49"	110° 07' 18.54"
14-9-4-3-2WH	40° 13' 48.79"	110° 07' 01.52"

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
13-9-4-3-2WH	40° 15' 26.24"	110° 07' 18.76"
14-9-4-3-2WH	40° 15' 26.48"	110° 07' 01.74"

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
13-9-4-3-2WH	10,469'	-973'
14-9-4-3-2WH	10,508'	317'

SURVEYED BY:	S.V.	DATE SURVEYED:	08-08-12	VERSION:	V3
DRAWN BY:	M.W.	DATE DRAWN:	08-10-12		
SCALE:	1" = 60'	REVISED:	V.H. 01-21-13		

Tri State Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: March 06, 2013

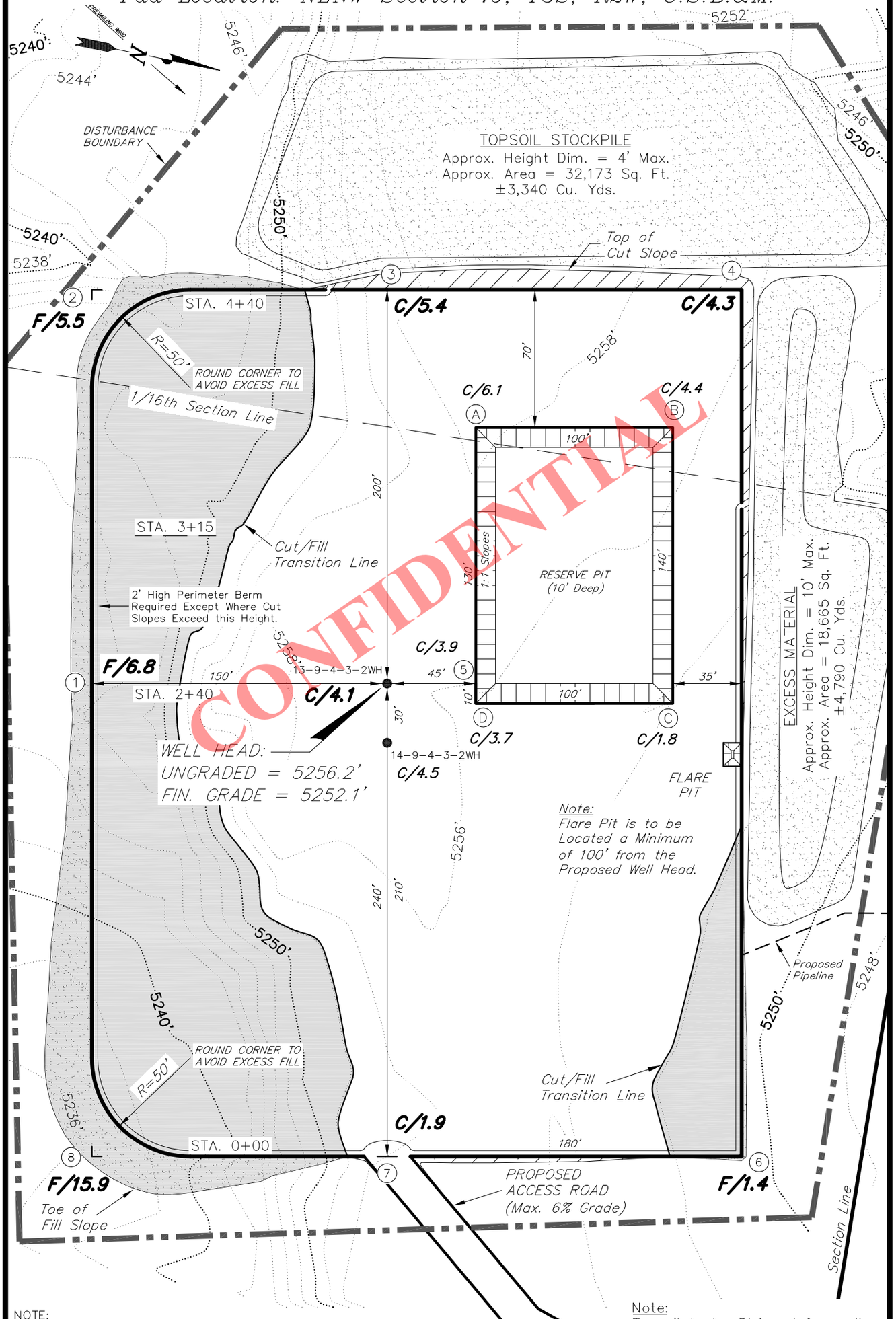
NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

13-9-4-3-2WH

14-9-4-3-2WH

Pad Location: NENW Section 16, T3S, R2W, U.S.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 8,130 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Topsoil to be Stripped from all New Construction Areas and Proposed Stockpile Locations

SURVEYED BY: S.V.	DATE SURVEYED: 08-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 08-10-12	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: V.H. 01-21-13		

RECEIVED: March 06, 2013

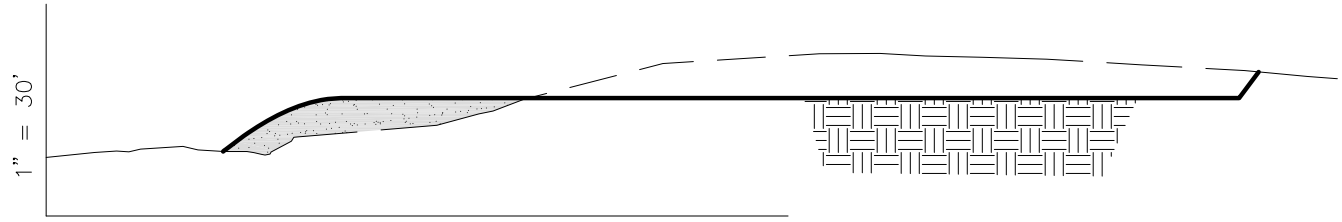
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

13-9-4-3-2WH

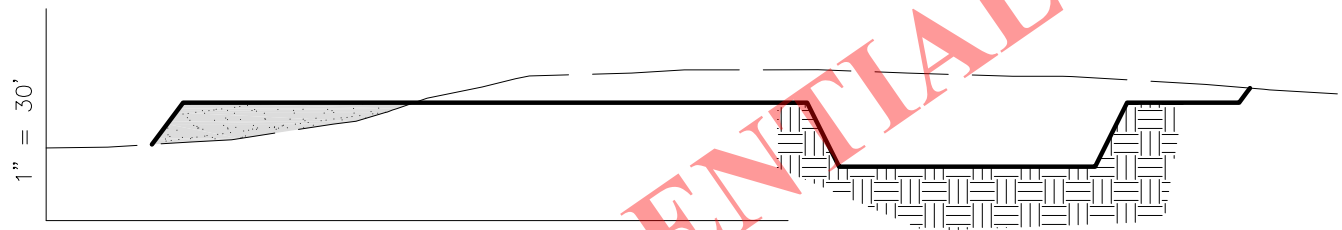
14-9-4-3-2WH

Pad Location: NENW Section 16, T3S, R2W, U.S.B.&M.



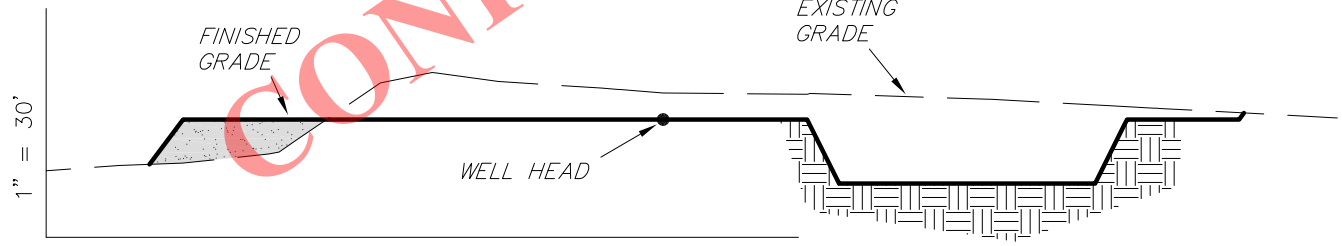
1" = 60'

STA. 4+40



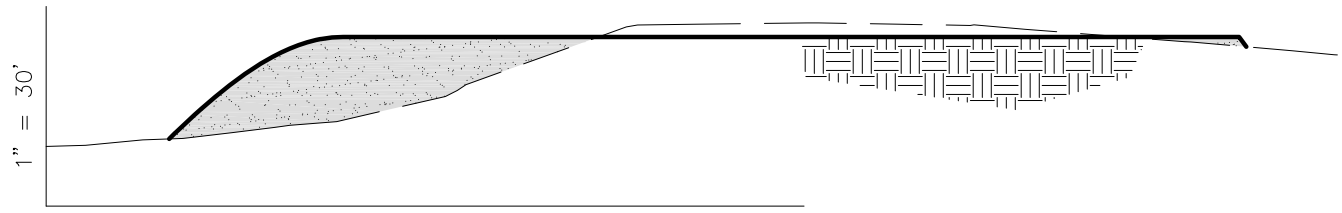
1" = 60'

STA. 3+15



1" = 60'

STA. 2+40



1" = 60'

STA. 0+00

NOTE:
UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	11,330	11,330	Topsoil is not included in Pad Cut Volume	0
PIT	4,350	0		4,350
TOTALS	15,680	11,330	3,030	4,350

SURVEYED BY: S.V.	DATE SURVEYED: 08-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 08-10-12	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: V.H. 01-21-13		

RECEIVED: March 06, 2013

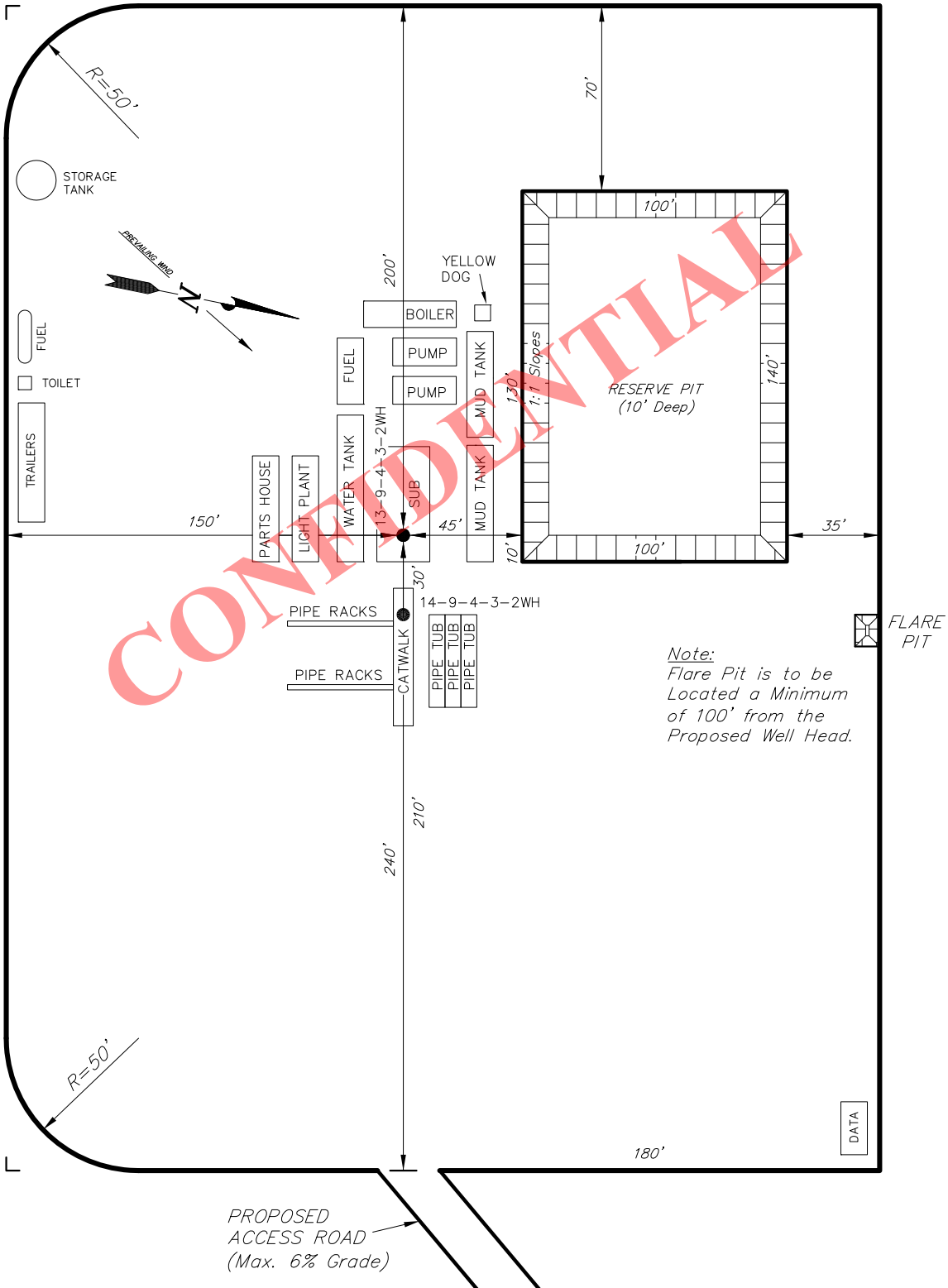
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

13-9-4-3-2WH

14-9-4-3-2WH

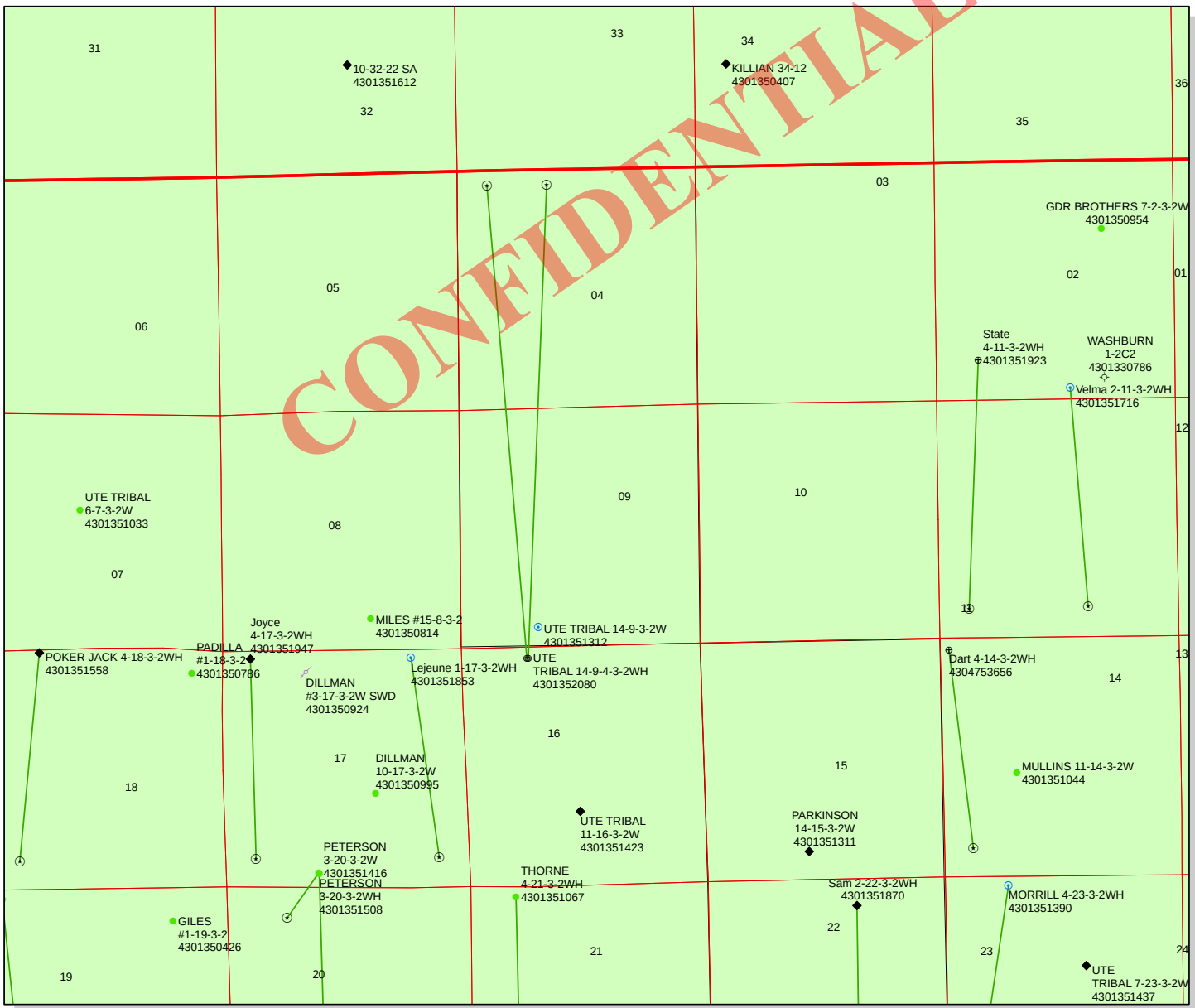
Pad Location: NENW Section 16, T3S, R2W, U.S.B.&M.



SURVEYED BY: S.V.	DATE SURVEYED: 08-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 08-10-12	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: V.H. 01-21-13		

RECEIVED: March 06, 2013

API Well Number: 43013520790000



API Number: 4301352079

Well Name: UTE TRIBAL 13-9-4-3-2WH

Township T03.0S Range R02.0W Section 16

Meridian: UBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

2,900 1,450 0 2,900 Feet

1:27,370

NEWFIELD

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

June 4, 2013

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

RE: Ute Tribal 13-9-4-3-2WH
Township 3 South, Range 2 West, Sections 9 & 4
Duchesne County, Utah

Dear Mr. Hill:

Newfield Production Company ("Newfield") proposes to drill the Ute Tribal 13-9-4-3-2WH from a surface location of 276' FNL and 1452' FWL of Section 16, T3S-R2W, to a bottom hole location of 330'FNL and 660'FWL of Section 4, T3S-R2W.

The Ute Tribal 13-9-4-3-2WH is covered by Order No. 139-98, which requires no portion of the producing interval of the horizontal lateral be closer than 330' from the northern or southern section boundaries and no closer than 660' from the eastern or western section boundaries, and requires proper surface and sub-surface authorization be obtained when the surface location is located off of the drilling unit.

In compliance with the above referenced Order, the top of the uppermost producing zone of the Ute Tribal 13-9-4-3-2WH is 330' FSL and 660' FWL of T3S-R2W Section 9. Newfield shall case and cement the Ute Tribal 13-9-4-3-2WH from the surface location to the point where the wellbore reaches the legal setback, and the wellbore will only be completed within the legal setback. In the event the horizontal drifts west, outside of the 660' FWL setback of Sections 9 & 4, T3S-R2W, Newfield will attempt to acquire consent from all owners in Sections 5 & 8 of T3S-R2W and shall file the appropriate application with the State.

In further compliance of the above referenced Order, Newfield has obtained authorization from the surface owner of the drilling location, as is evidenced by the Affidavit of Easement, Right-of-Way and Surface Use Agreement attached to the APD. Newfield and its partners are leasehold owners of minerals underlying the surface location and all that portion of the wellbore of the Ute Tribal 13-9-4-3-2WH.

Based on Newfield's compliance with the requirements of Order No. 139-98, Newfield respectfully requests the approval of our APD for the Ute Tribal 13-9-4-3-2WH.

Should you have questions or require further information, please do not hesitate to contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration of this matter is greatly appreciated.

My Regards,

Shane Gillespie
Landman

API Well Number: 43013520790000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY UTE TRIBAL 13-9-4-3-2WH 43013520790000

Well Name	NEWFIELD PRODUCTION COMPANY UTE TRIBAL 13-9-4-3-2WH 430			
String	COND	SURF	I1	PROD
Casing Size(")	20.000	13.375	9.675	5.500
Setting Depth (TVD)	60	1500	8410	9368
Previous Shoe Setting Depth (TVD)	0	60	1500	8410
Max Mud Weight (ppg)	8.3	8.4	10.0	14.0
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	2730	5750	12360
Operators Max Anticipated Pressure (psi)	6056			12.4

Calculations	COND String	20.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	26		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO	
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO	
Required Casing/BOPE Test Pressure=		60	psi	
***Max Pressure Allowed @ Previous Casing Shoe=**		0	psi *Assumes 1psi/ft frac gradient	

Calculations	SURF String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	655		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	475	YES	diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	325	YES	OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	338	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
***Max Pressure Allowed @ Previous Casing Shoe=**		60	psi *Assumes 1psi/ft frac gradient	

Calculations	I1 String	9.675	"	
Max BHP (psi)	.052*Setting Depth*MW=	4373		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3364	YES	5M BOPE, 2 ram preventers, annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2523	YES	preventer, 5M choke manifold
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2853	NO	OK
Required Casing/BOPE Test Pressure=		4025	psi	
***Max Pressure Allowed @ Previous Casing Shoe=**		1500	psi *Assumes 1psi/ft frac gradient	

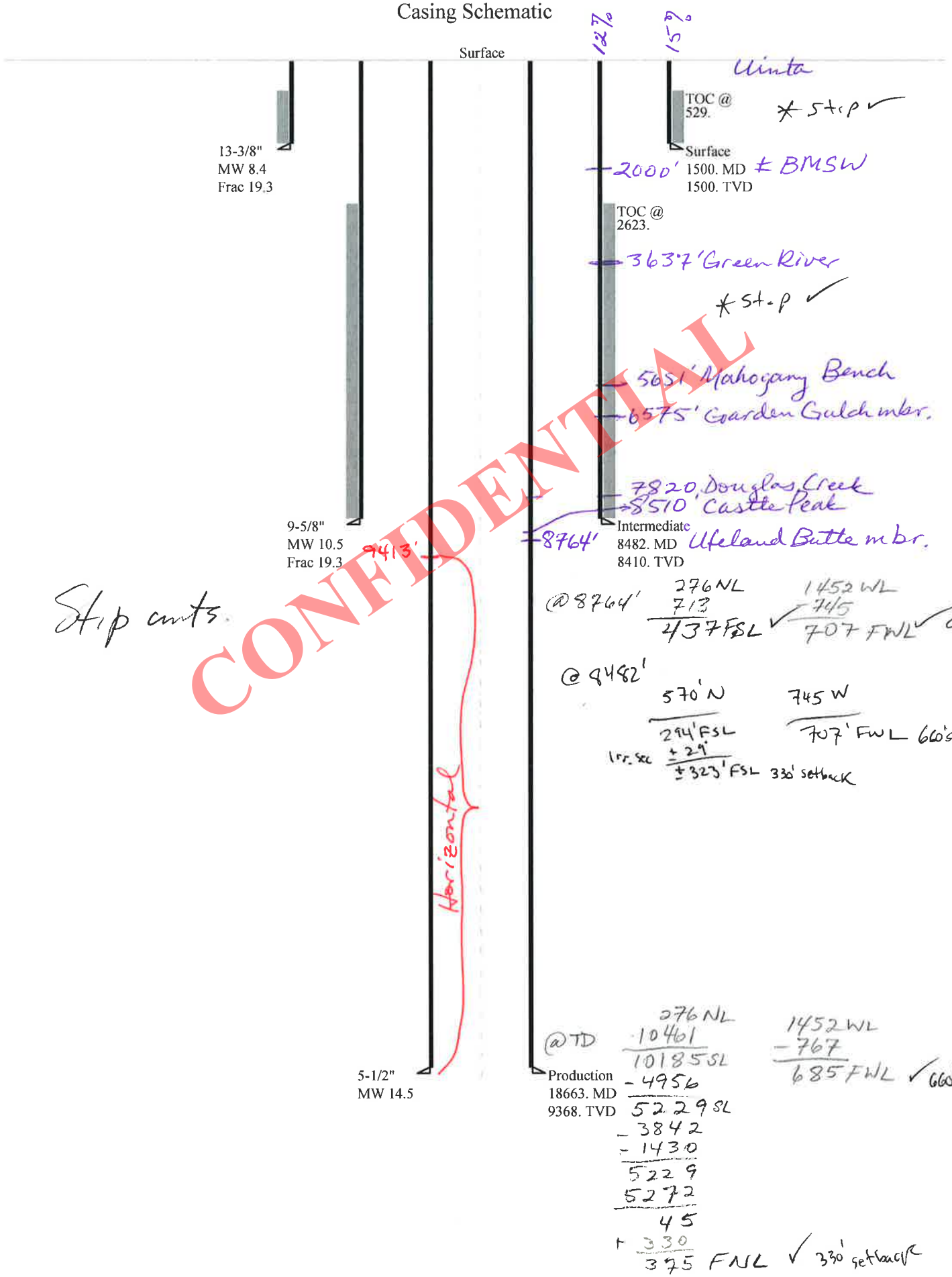
Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6820		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5696	NO	5M BOPE, 2 ram preventers, annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4759	YES	preventer, 5M choke manifold
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6609	YES	OK
Required Casing/BOPE Test Pressure=		5000	psi	
***Max Pressure Allowed @ Previous Casing Shoe=**		5750	psi *Assumes 1psi/ft frac gradient	

RECEIVED: August 01, 2013

API Well Number: 43013520790000

43013520790000 Ute Tribal 13-9-4-3-2WH

Casing Schematic



Stip cmts.

@ 8764'
276 NL
713
437 FSL ✓

1452 WL
- 745
707 FWL ✓ OK

@ 8482'
570' N
294' FSL
Irr. Sec ± 29'
± 323' FSL 330' setback

745 W
707' FWL 660' setback ✓ OK

@ TD
276 NL
10461
10185 SL
- 4956
5229 SL
- 3842
- 1430
5229
5272
45
+ 330
375 FNL ✓ 330' setback

1452 WL
- 767
685 FWL ✓ 660' setback ✓ OK

API Well Number: 43013520790000

Well name:	**43013520790000 Ute Tribal 13-9-4-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-52079
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 1,314 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 96 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 529 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 8,410 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,587 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	13.375	54.50	J-55	ST&C	1500	1500	12.49	18611

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	655	1130	1.727	1500	2730	1.82	71.6	514	7.18 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801.538.5357
FAX: 501.359.3940
Date: July 31,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43013520790000

Well name:	**43013520790000 Ute Tribal 13-9-4-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-52079
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	10.500 ppg
Internal fluid density:	4.230 ppg

Burst

Max anticipated surface pressure:	4,995 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,846 psi
Annular backup:	2.50 ppg

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on buoyed weight.
Neutral point: 7,161 ft

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	193 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	2,623 ft

Directional well information:

Kick-off point	8517 ft
Departure at shoe:	938 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	0 °

Re subsequent strings:

Next setting depth:	9,368 ft
Next mud weight:	14.500 ppg
Next setting BHP:	7,056 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	8,410 ft
Injection pressure:	8,410 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8482	9.625	40.00	N-80	Buttress	8410	8482	8.75	115489

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2739	3090	1.128	5753	5750	1.00	283.9	916.3	3.23 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801.538.5357
FAX: 501.359.3940
Date: July 31,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8410 ft, a mud weight of 10.5 ppg An internal gradient of .22 psi/ft was used for collapse from TD to
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43013520790000 Ute Tribal 13-9-4-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-52079
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 14.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 4,995 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,056 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 7,378 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 206 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Directional Info - Build & Hold
Kick-off point 8517 ft
Departure at shoe: 10490 ft
Maximum dogleg: 13.54 °/100ft
Inclination at shoe: 87.05 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	18663	5.5	20.00	P-110	Buttress	9368	18663	4.653	154832

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7056	11100	1.573	7056	12360	1.75	146.2	641.1	4.38 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801.538.5357
FAX: 501.359.3940
Date: July 17,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9368 ft, a mud weight of 14.5 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	NEWFIELD PRODUCTION COMPANY						
Well Name	UTE TRIBAL 13-9-4-3-2WH						
API Number	43013520790000	**APD No**	7766	**Field/Unit**	WILDCAT		
Location: 1/4,1/4	NENW	**Sec** 16	**Tw** 3.0S	**Rng** 2.0W	276 FNL	1452 FWL	
GPS Coord (UTM)	574953 4453494	**Surface Owner**	Murray Sheep Ranch, LLC - Dallas Murphy				

Participants

J. Burns - Starpoint; M.Crozier, C.Miller - NFX

Regional/Local Setting & Topography

This location is within what is called by the operator the Central Basin Unit in Duchesne County below the North Myton Bench. Highway 40 between Roosevelt and Myton is 2.5 miles East. The surrounding topography is hilly with capstones and eroded terraces with slopes >2%. The soils are Sandy with a good portion of silts consistent with floodplain profiles. Much of the surrounding lands are used for farming and have seen development for petroleum extraction. The location has not however, seen recent development and most of the property is undisturbed. Plant populations of Big sage, Rabbitbrush and Opuntia spp were noted on site. The site is situated below the North and South lateral canals. The Flattop Butte and Dry Gulch Canal, can all be found within a one mile radius. A ditch (drawn on a 7.5 minute quad map) is constructed across location conveying flows from the bench above in an arch to a rather large stock pond that one corner of the pad will disturb

Surface Use Plan

Current Surface Use
Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.1	**Width** 360 **Length** 440	Onsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

High desert shrubland ecosystem. Expected vegetation consists of black sagebrush, shadscale, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Dominant vegetation;
Mat Atriplex and Galleta
Wildlife;
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits, though none were observed.

RECEIVED: September 10, 2013

DWR did not respond with comment / issues

Soil Type and Characteristics

clays with some gravels

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? Y

care to be taken to avoid stock pond

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)		20	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Oil Base Mud Fluid	15	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Present	15	
	Final Score	95	1 Sensitivity Level

Characteristics / Requirements

Operator intends to use an oil based drilling mud and is therefore required to use a closed loop system. If a reserve pit and freshwater is used, Pit to be dug to a depth of 8'. Because of the likely hood of disturbance to existing sandstone bedrock , pit underlayment is to be used to protect the liner from potential puncture. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? Y **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

Other Observations / Comments

Newfield agreed to construct a new road for Mr Murray to replace the one that will be destroyed by the placement of the pad

RECEIVED: September 10, 2013

Chris Jensen	4/3/2013
Evaluator	**Date / Time**

RECEIVED: September 10, 2013

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7766	43013520790000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**	Murray Sheep Ranch, LLC - Dallas Murphy	
Well Name	UTE TRIBAL 13-9-4-3-2WH		**Unit**		
Field	WILDCAT		**Type of Work**	DRILL	
Location	NENW 16 3S 2W U 276 FNL 1452 FWL GPS Coord (UTM) 574951E 4453499N				

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows 6 water wells within a 10,000 foot radius of the center of Section 16. All wells are located over a mile from the proposed location. All wells are privately owned. Depth is listed as ranging from 65 to 142 feet. Average depth is less than 100 feet. Water use is listed as irrigation, stock watering, and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed surface casing should adequately protect useable ground water in this area.

Brad Hill — **APD Evaluator**

4/16/2013 — **Date / Time**

Surface Statement of Basis

Location is proposed in a good location although outside the spacing window typical of a horizontal well. Access road enters the pad from the North. The landowner was in attendance for the pre-site inspection.
The soil type and topography at present do combine to pose a small threat to erosion or sediment/ pollution transport in these regional climate conditions.
Usual construction standards of the Operator appear to be adequate for the proposed purpose as submitted. Operator has plans to use a closed loop system an oil based mud not indicated on plans.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was previously surveyed for cultural and paleontological resources as the operator saw fit. I have advised the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.
The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues. A diversion is to be built sufficient to conduct overland or channel flow according to plans submitted. Newfield Personnel promised to construct a road for landowners use as existing road will be destroyed

RECEIVED: September 10, 2013

Chris Jensen	4/3/2013
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location. Stock pond is not to be disturbed
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	A new access road to be construct to replace an existing road to be destroyed by drilling operations

RECEIVED: September 10, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/6/2013 **API NO. ASSIGNED:** 43013520790000

WELL NAME: UTE TRIBAL 13-9-4-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NENW 16 030S 020W **Permit Tech Review:** ☑

SURFACE: 0276 FNL 1452 FWL **Engineering Review:** ☑

BOTTOM: 0330 FNL 0660 FWL **Geology Review:** ☑

COUNTY: DUCHESNE

LATITUDE: 40.22857 **LONGITUDE:** -110.11900

UTM SURF EASTINGS: 574951.00 **NORTHINGS:** 4453499.00

FIELD NAME: WILDCAT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H626269 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

SURFACE OWNER: 4 - Fee **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** INDIAN - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☑ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☑ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 139-98

Effective Date: 12/14/2012

Siting: 4 Prod HORZ Wells/1280

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

1 - Exception Location - bhill
4 - Federal Approval - dmason
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
27 - Other - bhill

RECEIVED: September 10, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: UTE TRIBAL 13-9-4-3-2WH
API Well Number: 43013520790000
Lease Number: 1420H626269
Surface Owner: FEE (PRIVATE)
Approval Date: 9/10/2013

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-98. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from

actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED
MAR 1 1 2013
BLM Vernal UT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. 1420H626269
	6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. UTE TRIBAL 13-9-4-3-2WH
2. Name of Operator NEWFIELD EXPLORATION COMPANY Contact: DON S HAMILTON Email: starpoint@etv.net	9. API Well No. 43-013-52019
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052 / 3b. Phone No. (include area code) Ph: 435-719-2018 Fx: 435-719-2019	10. Field and Pool, or Exploratory UNDESIGNATED
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NENW 276FNL 1452FWL 40.134268 N Lat, 110.070830 W Lon At proposed prod. zone Lot 4 330FNL 660FWL 40.134268 N Lat, 110.070830 W Lon Sec. 4	11. Sec., T., R., M., or Blk. and Survey or Area Sec 16 T3S R2W Mer UBM SME: FEE
14. Distance in miles and direction from nearest town or post office* 5.8 MILES NORTHWEST OF MYTON, UTAH	12. County or Parish DUCHESNE / 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 276 / 16. No. of Acres in Lease 4130.84	17. Spacing Unit dedicated to this well 40.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 30 / 19. Proposed Depth 19124 MD 9336 TVD	20. BLM/BIA Bond No. on file RLB0010462
21. Elevations (Show whether DF, KB, RT, GL, etc. 5256 GL / 22. Approximate date work will start 03/15/2103	23. Estimated duration 60 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DON S HAMILTON Ph: 435-719-2018	Date 03/06/2013
Title PERMITTING AGENT		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date JUN 03 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

RECEIVED
JUN 07 2013
DIV. OF OIL, GAS & MINING

Electronic Submission #200769 verified by the BLM Well Information System
For NEWFIELD EXPLORATION COMPANY, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 03/21/2013 (13JM0887AE)

NOTICE OF APPROVAL

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Newfield Production Company**	**Location:**	**NENW, Sec. 16, T3S, R2W**
Well No:	**Ute Tribal 13-9-4-3-2WH**	**Lease No:**	**14-20-H62-6269**
API No:	**43-013-52079**	**Agreement:**	

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

CONDITIONS OF APPROVAL:

- It is recommend that Newfield consult with the Utah Division of Wildlife Resources to minimize impacts to birds, particularly protected under the Migratory Bird Treaty Act and to ensure compliance with Federal and State laws protecting Migratory Birds.

- Newfield will not pump surface water from the Green River. Specifically, for Newfield's development, water collection wells will be connected to a centralized pumping station via underground waterlines. The water wells will be developed using conventional drilling methods. Each well will extend to a depth of approximately 100 feet below the surface.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the intermediate casing will be brought to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run in the intermediate casing to TOC.
- Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Cement samples shall be caught for all stages of cement work for the Surface and Intermediate casing strings and tested for compressive strength.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pete Martin Rig #16
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number Ute Tribal 13-9-4-3-2WH
Qtr/Qtr NE/NW Section 16 Township 3S Range 2W
Lease Serial Number 14-20-H62-6269
API Number 43-013-52079

CONFIDENTIAL

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 04/13/2014 09:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626269

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
UTE TRIBAL 13-9-4-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013520790000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0276 FNL 1452 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☑ SPUD REPORT Date of Spud: 4/13/2014	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pete Martin Rig #16 spudded 26" hole on 04/13/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 01, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cherei Neilson	435 646-4883	Drilling Techinacian
SIGNATURE		**DATE**
N/A		5/1/2014

NEWFIELD

Casing

Conductor

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013520790000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah		

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	0	60	4/13/2014	4/13/2014

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Conductor	60	4/13/2014	

Centralizers	Scratchers

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor Pipe	20	19.500	52.78	SA53B	Welded	2	60.00	0.0	60.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: May. 01, 2014

NEWFIELD

Casing

Surface

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013520790000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah		

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	0	60	4/13/2014	4/13/2014
Vertical	17 1/2	60	1,635	4/17/2014	4/19/2014

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Surface	1,615	4/20/2014	

Centralizers	Scratchers
14 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface.	

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Casing Joints	13 3/8	12.615	54.50	J-55	Buttress Thread	37	1,568.89	0.2	1,569.1			
Float Collar					Buttress Thread	1	1.50	1,569.1	1,570.6			
Casing Joints	13 3/8	12.615	54.50	J-55	Buttress Thread	1	43.40	1,570.6	1,614.0			
Guide Shoe					Buttress Thread	1	1.00	1,614.0	1,615.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: May. 01, 2014

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626269

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
UTE TRIBAL 13-9-4-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013520790000

3. ADDRESS OF OPERATOR:
1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER:
303 382-4443 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0276 FNL 1452 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/27/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield Production Company respectfully requests that the 13-9-4-3-2WH drilling and horizontal plan be changed to reflect slight adjustments to the casing and cement details. No changes are proposed to the surface or bottom hole location. Attached please find an updated drilling plan and horizontal plan reflecting the changes.

Approved by the Utah Division of Oil, Gas and Mining
May 22, 2014
Date:
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent (Star Point Enterprises, Inc.)
SIGNATURE		**DATE**
N/A		5/22/2014

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Newfield Production Company
13-9-4-3-2WH
Surface Hole Location: 276' FNL, 1452' FWL, Section 16, T3S, R2W
Bottom Hole Location: 330' FNL, 660' FWL, Section 4, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,599'
Garden Gulch	6,441'
Uteland Butte Member	8,750'
Lateral TD	9,408' TVD / 19,322' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	2,013'			(water)
Green River	6,441'	-	8,750'	(oil)
Uteland Butte Member	8,750'	-	9,408'	(oil)

3. Pressure Control

Section	BOP Description
Surface	Diverter
Intermediate	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.
Prod/Prod Liner	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 20	0'	60'	--	--	Weld	--	--	--	--	--	--
									--	--	--
Surface 13 3/8	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
									2.89	2.63	6.29
Intrm Drilling 9 5/8	0'	8,398' 8,444'	40	N-80	BTC	10	10.5	16	5,750	3,090	916,000
									1.31	1.35	2.73
Production 5 1/2	0'	9,408' 19,322'	20	P-110	BTC	14	14.5	17	12,360	11,080	641,000
									2.27	1.95	1.66

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing drilling MASP = 0.5 ppg gas kick with a 70 bbl gain and frac at the shoe with a 1 ppg safety factor
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,199'
Intermediate csg run from surface to 8,398' TVD and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 psi/ft

All casing shall be new.
All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 240	15%	11.0	3.33
Surface Tail	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 210	15%	13.0	1.9
Intermediate Lead	12 1/4	6,441'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2320 / 657	15%	11.0	3.53
Intermediate Tail	12 1/4	2,003'	50/50 Poz/Class G + 1% bentonite	721 / 559	15%	14.0	1.29
Production Lead	8 3/4	1,334'	Elastiseal Unfoamed	371 / 201	10%	17.3	1.84
Production Tail	8 3/4	10,044'	Elastiseal Foamed	2537 / 1379	0%	14.5 - 17.3	1.84

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log or gauge hole if logs are not ran, plus 15% excess.

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 9,278' MD
The first perforation will be within 19,187' MD

Per the directional plan, the bore hole will be drilled 135' past the toe setback for the rat hole and shoe track. This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,500'	- 8,444'	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

8,444'	- TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.

Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log may be run from KOP to the base of the surface casing. An azimuthal gamma ray LWD log will be run from the shoe of the intermediate casing to TD. A cement bond log will be run from KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,408' x 0.73 psi/ft = 6849 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Uteland Butte member of the Green River formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 8,444'
Directional tools will then be used to build to 86.90 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

Water flows in the surface hole are likely. If the water flow is less than 400 bbls/hr, the well will be allowed to flow until the surface casing point is reached and water will be hauled off location. If the water flow is greater than 400 bbls/hr, the water flow will be controlled with kill weight mud which will be maintained until TD. In both situations, the cement density will be adjusted to meet or exceed the mud weight needed to kill the water flow and the well will be shut in once cement is in place. If cement fails to reach the surface or falls back, a top job will be performed to bring cement to surface. Any water flows will be sampled and tested and results will be sent to UDOGM.

A diveter will be used to drill the surface hole interval.

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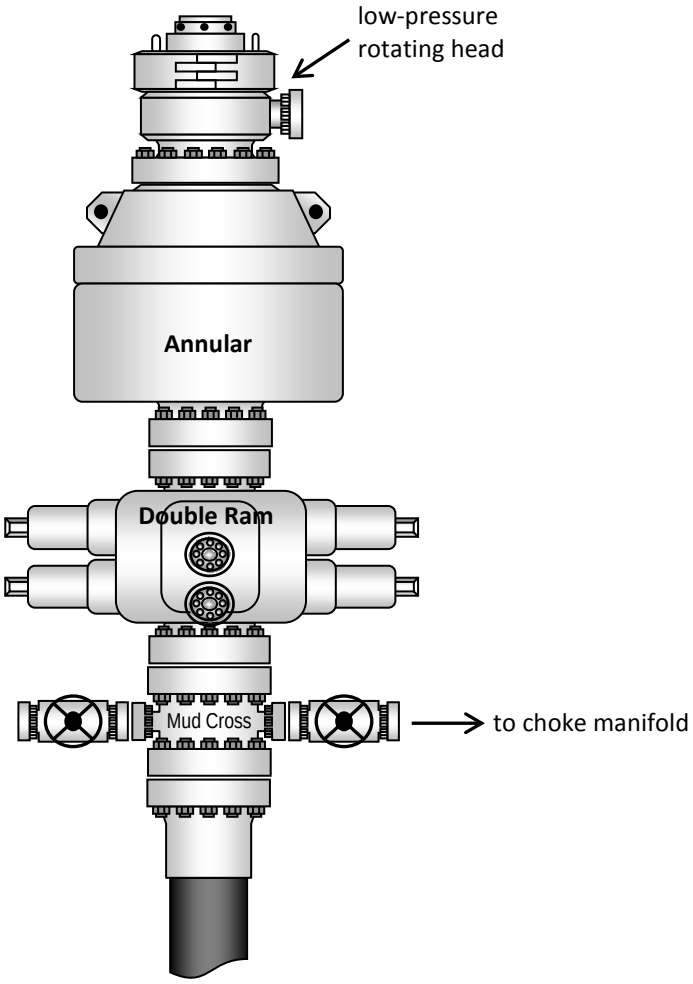
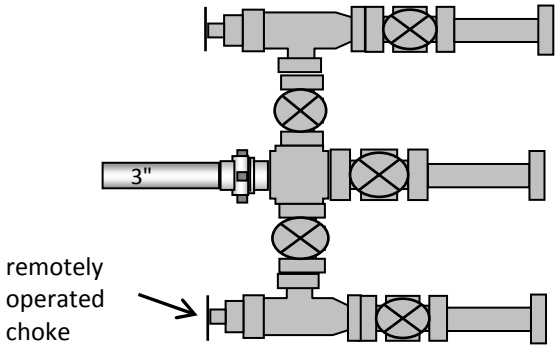
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT
UTE TRIBAL 13 and 14-9-4-3-2WH PAD
UTE TRIBAL 13-9-4-3-2WH

UTE TRIBAL 13-9-4-3-2WH

Plan: Design #2

PROPOSAL

14 May, 2014

RECEIVED: May. 22, 2014

Sundry Number: 51413 API Well Number: 43013520790000

NEWFIELD

Project:	DUCHESNE COUNTY, UT
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD
Well:	UTE TRIBAL 13-9-4-3-2WH
Wellbore:	UTE TRIBAL 13-9-4-3-2WH
Design:	Design #2
Latitude:	40° 13' 42.680 N
Longitude:	110° 7' 8.300 W
GL:	5256.00
KB:	WELL @ 5284.00ft (Pioneer 78)

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WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
8° CURVE UTLAND BUTTE C PZ2 TGT	8865.24	577.15	-758.36	7255507.51	2025224.25	40° 13' 48.384 N	110° 7' 18.078 W
PBHL UTE TRIBAL 13-9-4-3-2WH	9401.05	10470.34	-923.38	7265396.95	2024906.51	40° 15' 26.155 N	110° 7' 20.211 W
135' PAST PBHL UTE TRIBAL 13-9-4-3-2WH	9408.35	10605.13	-925.63	7265531.69	2024902.18	40° 15' 27.487 N	110° 7' 20.240 W

WELL DETAILS: UTE TRIBAL 13-9-4-3-2WH

Ground Level: 5256.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7254942.13	2025991.43	40° 13' 42.680 N	110° 7' 8.300 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1574.00	3.87	261.30	1572.00	-17.38	-58.15	0.00	0.00	-12.26	Start 126.00 hold at 1574.00 MD
1700.00	3.87	261.30	1697.71	-18.67	-66.55	0.00	0.00	-12.81	Start DLS 5.00 TFO -2.14
1744.02	6.07	260.52	1741.56	-19.28	-70.32	5.00	-2.14	-13.09	Start 6263.60 hold at 1744.02 MD
8007.62	6.07	260.52	7970.04	-128.35	-723.61	0.00	0.00	-64.95	Start DLS 5.00 TFO 113.88
8441.83	20.00	359.04	8395.04	-57.03	-747.78	5.00	113.88	8.20	Start Build 8.00
9278.09	86.90	359.04	8865.24	577.15	-758.36	8.00	0.00	640.91	Start 9909.07 hold at 9278.09 MD
19187.15	86.90	359.04	9401.11	10470.34	-923.38	0.00	0.00	10510.98	Start 135.00 hold at 19187.15 MD
19322.15	86.90	359.04	9408.41	10605.13	-925.63	0.00	0.00	10645.45	TD at 19322.15

PROJECT DETAILS: DUCHESNE COUNTY, UT

Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Utah Central Zone
System Datum:	Mean Sea Level

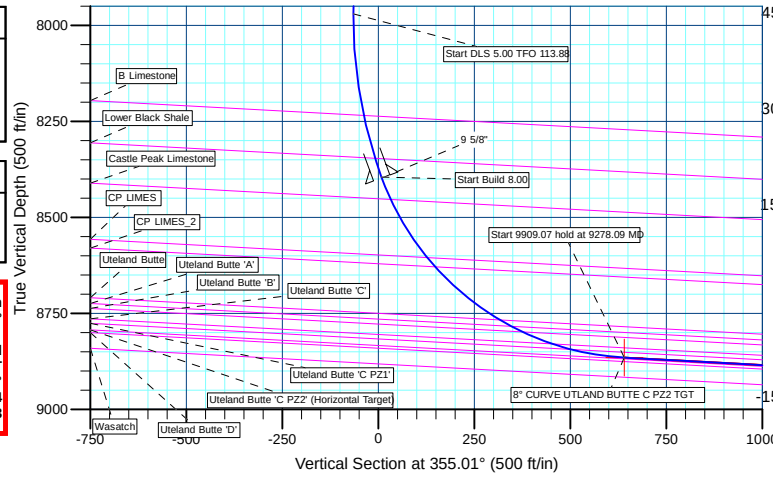
CASING DETAILS

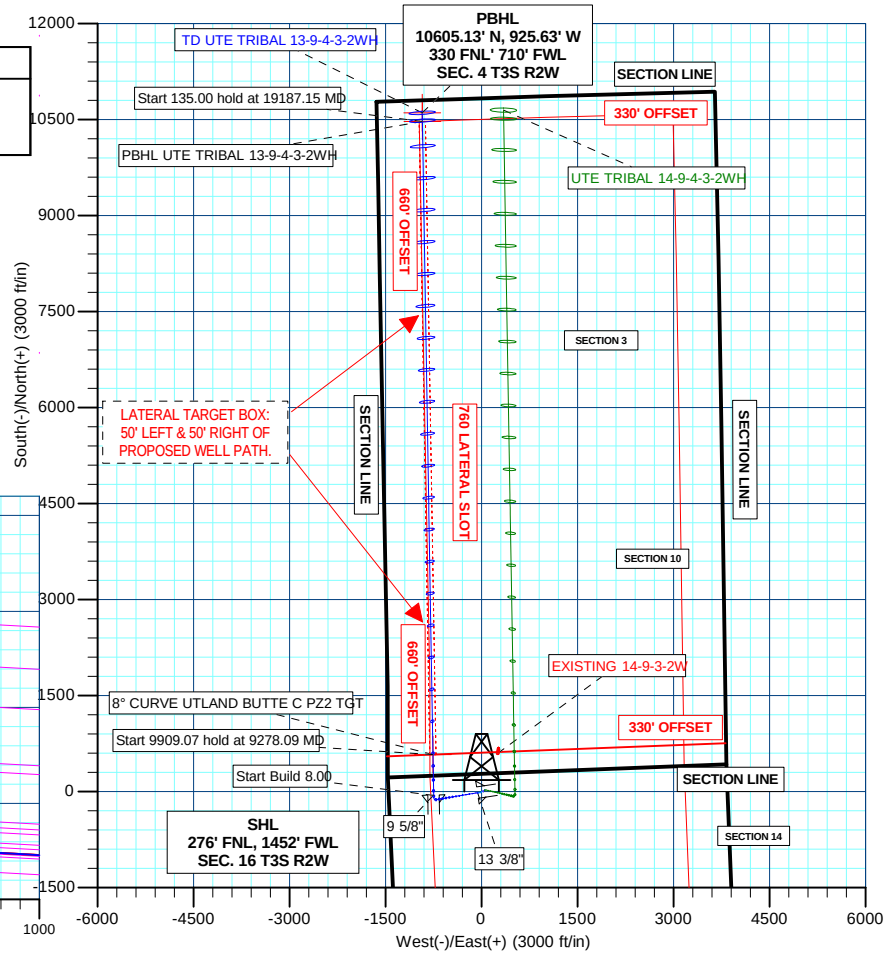
TVD	MD	Name	Size
1612.90	1615.00	13 3/8"	13-3/8
8398.00	8444.98	9 5/8"	9-5/8

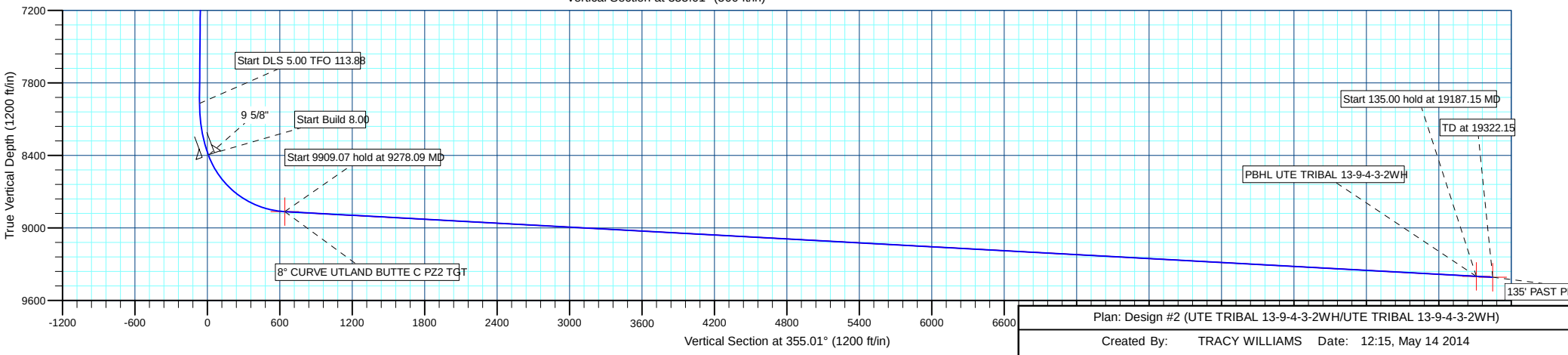
T M

Azimuths to True North
Magnetic North: 11.09°

Magnetic Field
Strength: 51978.2snT
Dip Angle: 65.84°
Date: 5/13/2014
Model: BGGM2013







Plan: Design #2 (UTE TRIBAL 13-9-4-3-2WH/UTE TRIBAL 13-9-4-3-2WH)

Created By: TRACY WILLIAMS Date: 12:15, May 14 2014

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NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT
UTE TRIBAL 13 and 14-9-4-3-2WH PAD
UTE TRIBAL 13-9-4-3-2WH

UTE TRIBAL 13-9-4-3-2WH

Plan: Design #2

Standard Planning Report

14 May, 2014

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Planning Report

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Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Project DUCHESNE COUNTY, UT

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site UTE TRIBAL 13 and 14-9-4-3-2WH PAD

Site Position:		**Northing:**	7 254 942.13 usft	**Latitude:**	40° 13' 42.680 N
From:	Lat/Long	**Easting:**	2 025 991.43 usft	**Longitude:**	110° 7' 8.300 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.88 °

Well UTE TRIBAL 13-9-4-3-2WH

Well Position	**+N/-S**	0.00 ft	**Northing:**	7 254 942.13 usft	**Latitude:**	40° 13' 42.680 N
	+E/-W	0.00 ft	**Easting:**	2 025 991.43 usft	**Longitude:**	110° 7' 8.300 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5 256.00 ft

Wellbore UTE TRIBAL 13-9-4-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	5/13/2014	11.09	65.84	51 978

Design Design #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	1 574.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	355.01

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
1 574.00	3.87	261.30	1 572.00	-17.38	-58.15	0.00	0.00	0.00	0.00	
1 700.00	3.87	261.30	1 697.71	-18.67	-66.55	0.00	0.00	0.00	0.00	
1 744.02	6.07	260.52	1 741.56	-19.28	-70.32	5.00	5.00	-1.77	-2.14	
8 007.62	6.07	260.52	7 970.04	-128.35	-723.61	0.00	0.00	0.00	0.00	
8 441.83	20.00	359.04	8 395.04	-57.03	-747.78	5.00	3.21	22.69	113.88	
9 278.09	86.90	359.04	8 865.24	577.15	-758.36	8.00	8.00	0.00	0.00	8° CURVE UTLAND E
19 187.15	86.90	359.04	9 401.11	10 470.34	-923.38	0.00	0.00	0.00	0.00	PBHL UTE TRIBAL 1
19 322.15	86.90	359.04	9 408.41	10 605.13	-925.63	0.00	0.00	0.00	0.00	135' PAST PBHL UTE

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Planning Report

Weatherford

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 126.00 hold at 1574.00 MD									
1 574.00	3.87	261.30	1 572.00	-17.38	-58.15	-12.26	0.00	0.00	0.00
1 600.00	3.87	261.30	1 597.94	-17.65	-59.88	-12.37	0.00	0.00	0.00
13 3/8"									
1 615.00	3.87	261.30	1 612.90	-17.80	-60.88	-12.44	0.00	0.00	0.00
Start DLS 5.00 TFO -2.14									
1 700.00	3.87	261.30	1 697.71	-18.67	-66.55	-12.81	0.00	0.00	0.00
Start 6263.60 hold at 1744.02 MD									
1 744.02	6.07	260.52	1 741.56	-19.28	-70.32	-13.09	5.00	5.00	-1.77
1 800.00	6.07	260.52	1 797.23	-20.25	-76.15	-13.55	0.00	0.00	0.00
1 900.00	6.07	260.52	1 896.67	-21.99	-86.58	-14.38	0.00	0.00	0.00
2 000.00	6.07	260.52	1 996.11	-23.73	-97.01	-15.21	0.00	0.00	0.00
Usable Water									
2 015.77	6.07	260.52	2 011.79	-24.01	-98.66	-15.34	0.00	0.00	0.00
2 100.00	6.07	260.52	2 095.54	-25.48	-107.44	-16.04	0.00	0.00	0.00
2 200.00	6.07	260.52	2 194.98	-27.22	-117.87	-16.86	0.00	0.00	0.00
2 300.00	6.07	260.52	2 294.42	-28.96	-128.30	-17.69	0.00	0.00	0.00
2 400.00	6.07	260.52	2 393.86	-30.70	-138.73	-18.52	0.00	0.00	0.00
2 500.00	6.07	260.52	2 493.30	-32.44	-149.16	-19.35	0.00	0.00	0.00
2 600.00	6.07	260.52	2 592.74	-34.18	-159.59	-20.18	0.00	0.00	0.00
2 700.00	6.07	260.52	2 692.18	-35.92	-170.02	-21.00	0.00	0.00	0.00
2 800.00	6.07	260.52	2 791.62	-37.67	-180.45	-21.83	0.00	0.00	0.00
2 900.00	6.07	260.52	2 891.06	-39.41	-190.88	-22.66	0.00	0.00	0.00
3 000.00	6.07	260.52	2 990.50	-41.15	-201.31	-23.49	0.00	0.00	0.00
3 100.00	6.07	260.52	3 089.94	-42.89	-211.74	-24.32	0.00	0.00	0.00
3 200.00	6.07	260.52	3 189.38	-44.63	-222.17	-25.14	0.00	0.00	0.00
3 300.00	6.07	260.52	3 288.82	-46.37	-232.60	-25.97	0.00	0.00	0.00
3 400.00	6.07	260.52	3 388.26	-48.11	-243.03	-26.80	0.00	0.00	0.00
3 500.00	6.07	260.52	3 487.70	-49.86	-253.46	-27.63	0.00	0.00	0.00
3 600.00	6.07	260.52	3 587.13	-51.60	-263.89	-28.46	0.00	0.00	0.00
Green River Formation									
3 609.36	6.07	260.52	3 596.44	-51.76	-264.87	-28.53	0.00	0.00	0.00
3 700.00	6.07	260.52	3 686.57	-53.34	-274.32	-29.28	0.00	0.00	0.00
3 800.00	6.07	260.52	3 786.01	-55.08	-284.75	-30.11	0.00	0.00	0.00
3 900.00	6.07	260.52	3 885.45	-56.82	-295.18	-30.94	0.00	0.00	0.00
4 000.00	6.07	260.52	3 984.89	-58.56	-305.61	-31.77	0.00	0.00	0.00
4 100.00	6.07	260.52	4 084.33	-60.30	-316.04	-32.60	0.00	0.00	0.00
4 200.00	6.07	260.52	4 183.77	-62.05	-326.47	-33.42	0.00	0.00	0.00
4 300.00	6.07	260.52	4 283.21	-63.79	-336.90	-34.25	0.00	0.00	0.00
4 400.00	6.07	260.52	4 382.65	-65.53	-347.33	-35.08	0.00	0.00	0.00
4 500.00	6.07	260.52	4 482.09	-67.27	-357.76	-35.91	0.00	0.00	0.00
4 600.00	6.07	260.52	4 581.53	-69.01	-368.19	-36.73	0.00	0.00	0.00
4 700.00	6.07	260.52	4 680.97	-70.75	-378.62	-37.56	0.00	0.00	0.00
4 800.00	6.07	260.52	4 780.41	-72.49	-389.05	-38.39	0.00	0.00	0.00
4 900.00	6.07	260.52	4 879.85	-74.23	-399.48	-39.22	0.00	0.00	0.00
5 000.00	6.07	260.52	4 979.29	-75.98	-409.91	-40.05	0.00	0.00	0.00
5 100.00	6.07	260.52	5 078.72	-77.72	-420.34	-40.87	0.00	0.00	0.00
5 200.00	6.07	260.52	5 178.16	-79.46	-430.77	-41.70	0.00	0.00	0.00
5 300.00	6.07	260.52	5 277.60	-81.20	-441.20	-42.53	0.00	0.00	0.00
5 400.00	6.07	260.52	5 377.04	-82.94	-451.63	-43.36	0.00	0.00	0.00
5 500.00	6.07	260.52	5 476.48	-84.68	-462.06	-44.19	0.00	0.00	0.00
Trona									
5 562.65	6.07	260.52	5 538.78	-85.77	-468.60	-44.70	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5 600.00	6.07	260.52	5 575.92	-86.42	-472.49	-45.01	0.00	0.00	0.00
Mahogany Bench									
5 605.86	6.07	260.52	5 581.74	-86.53	-473.11	-45.06	0.00	0.00	0.00
5 700.00	6.07	260.52	5 675.36	-88.17	-482.92	-45.84	0.00	0.00	0.00
5 800.00	6.07	260.52	5 774.80	-89.91	-493.35	-46.67	0.00	0.00	0.00
5 900.00	6.07	260.52	5 874.24	-91.65	-503.78	-47.50	0.00	0.00	0.00
6 000.00	6.07	260.52	5 973.68	-93.39	-514.21	-48.33	0.00	0.00	0.00
6 100.00	6.07	260.52	6 073.12	-95.13	-524.64	-49.15	0.00	0.00	0.00
6 200.00	6.07	260.52	6 172.56	-96.87	-535.07	-49.98	0.00	0.00	0.00
6 300.00	6.07	260.52	6 272.00	-98.61	-545.50	-50.81	0.00	0.00	0.00
6 400.00	6.07	260.52	6 371.44	-100.36	-555.93	-51.64	0.00	0.00	0.00
Garden Gulch Member									
6 464.94	6.07	260.52	6 436.02	-101.49	-562.71	-52.18	0.00	0.00	0.00
6 500.00	6.07	260.52	6 470.88	-102.10	-566.36	-52.47	0.00	0.00	0.00
6 600.00	6.07	260.52	6 570.31	-103.84	-576.79	-53.29	0.00	0.00	0.00
6 700.00	6.07	260.52	6 669.75	-105.58	-587.22	-54.12	0.00	0.00	0.00
Garden Gulch Member-1									
6 720.16	6.07	260.52	6 689.80	-105.93	-589.33	-54.29	0.00	0.00	0.00
6 800.00	6.07	260.52	6 769.19	-107.32	-597.65	-54.95	0.00	0.00	0.00
Garden Gulch Member-2									
6 876.90	6.07	260.52	6 845.67	-108.66	-605.68	-55.59	0.00	0.00	0.00
6 900.00	6.07	260.52	6 868.63	-109.06	-608.08	-55.78	0.00	0.00	0.00
7 000.00	6.07	260.52	6 968.07	-110.80	-618.51	-56.60	0.00	0.00	0.00
7 100.00	6.07	260.52	7 067.51	-112.55	-628.94	-57.43	0.00	0.00	0.00
7 200.00	6.07	260.52	7 166.95	-114.29	-639.37	-58.26	0.00	0.00	0.00
7 300.00	6.07	260.52	7 266.39	-116.03	-649.80	-59.09	0.00	0.00	0.00
7 400.00	6.07	260.52	7 365.83	-117.77	-660.23	-59.92	0.00	0.00	0.00
7 500.00	6.07	260.52	7 465.27	-119.51	-670.66	-60.74	0.00	0.00	0.00
Douglas Creek Member									
7 550.11	6.07	260.52	7 515.09	-120.38	-675.89	-61.16	0.00	0.00	0.00
7 600.00	6.07	260.52	7 564.71	-121.25	-681.09	-61.57	0.00	0.00	0.00
7 700.00	6.07	260.52	7 664.15	-122.99	-691.52	-62.40	0.00	0.00	0.00
7 800.00	6.07	260.52	7 763.59	-124.74	-701.95	-63.23	0.00	0.00	0.00
7 900.00	6.07	260.52	7 863.03	-126.48	-712.38	-64.06	0.00	0.00	0.00
Start DLS 5.00 TFO 113.88									
8 007.62	6.07	260.52	7 970.04	-128.35	-723.61	-64.95	0.00	0.00	0.00
8 100.00	5.95	305.78	8 061.96	-126.36	-732.32	-62.20	5.00	-0.13	48.99
8 200.00	9.04	336.91	8 161.14	-116.09	-739.61	-51.34	5.00	3.09	31.14
B Limestone									
8 272.16	12.09	347.56	8 232.07	-103.48	-743.46	-38.45	5.00	4.22	14.75
8 300.00	13.34	350.35	8 259.23	-97.47	-744.63	-32.35	5.00	4.49	10.00
Lower Black Shale									
8 387.57	17.41	356.48	8 343.65	-74.42	-747.13	-9.17	5.00	4.65	7.01
8 400.00	18.00	357.13	8 355.49	-70.64	-747.34	-5.39	5.00	4.74	5.23
Start Build 8.00									
8 441.83	20.00	359.04	8 395.04	-57.03	-747.78	8.20	5.00	4.77	4.57
9 5/8"									
8 444.98	20.25	359.04	8 398.00	-55.95	-747.80	9.28	8.00	8.00	0.00
8 450.00	20.65	359.04	8 402.70	-54.20	-747.83	11.03	8.00	8.00	0.00
8 500.00	24.65	359.04	8 448.83	-34.94	-748.15	30.24	8.00	8.00	0.00
Castle Peak Limestone									
8 502.20	24.83	359.04	8 450.84	-34.02	-748.17	31.16	8.00	8.00	0.00
8 550.00	28.65	359.04	8 493.51	-12.52	-748.52	52.61	8.00	8.00	0.00

RECEIVED: May. 22, 2014

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8 600.00	32.65	359.04	8 536.52	12.96	-748.95	78.03	8.00	8.00	0.00
8 650.00	36.65	359.04	8 577.64	41.38	-749.42	106.39	8.00	8.00	0.00
CP LIMES									
8 680.80	39.12	359.04	8 601.95	60.29	-749.74	125.25	8.00	8.00	0.00
8 700.00	40.65	359.04	8 616.68	72.60	-749.94	137.53	8.00	8.00	0.00
CP LIMES_2									
8 712.45	41.65	359.04	8 626.06	80.79	-750.08	145.71	8.00	8.00	0.00
8 750.00	44.65	359.04	8 653.44	106.47	-750.51	171.32	8.00	8.00	0.00
8 800.00	48.65	359.04	8 687.76	142.82	-751.12	207.58	8.00	8.00	0.00
8 850.00	52.65	359.04	8 719.45	181.47	-751.76	246.15	8.00	8.00	0.00
8 900.00	56.65	359.04	8 748.37	222.24	-752.44	286.82	8.00	8.00	0.00
Uteland Butte									
8 929.48	59.01	359.04	8 764.07	247.19	-752.86	311.72	8.00	8.00	0.00
8 950.00	60.65	359.04	8 774.38	264.92	-753.15	329.41	8.00	8.00	0.00
Uteland Butte 'A'									
8 963.00	61.69	359.04	8 780.65	276.31	-753.34	340.77	8.00	8.00	0.00
Uteland Butte 'B'									
8 995.01	64.25	359.04	8 795.19	304.82	-753.82	369.21	8.00	8.00	0.00
9 000.00	64.65	359.04	8 797.34	309.32	-753.89	373.70	8.00	8.00	0.00
9 050.00	68.65	359.04	8 817.15	355.21	-754.66	419.48	8.00	8.00	0.00
Uteland Butte 'C'									
9 076.23	70.75	359.04	8 826.25	379.81	-755.07	444.03	8.00	8.00	0.00
9 100.00	72.65	359.04	8 833.71	402.37	-755.44	466.53	8.00	8.00	0.00
Uteland Butte 'C PZ1'									
9 125.11	74.66	359.04	8 840.78	426.47	-755.85	490.57	8.00	8.00	0.00
9 150.00	76.65	359.04	8 846.94	450.57	-756.25	514.62	8.00	8.00	0.00
9 200.00	80.65	359.04	8 856.78	499.58	-757.07	563.51	8.00	8.00	0.00
9 250.00	84.65	359.04	8 863.17	549.15	-757.89	612.97	8.00	8.00	0.00
Start 9909.07 hold at 9278.09 MD									
9 278.09	86.90	359.04	8 865.24	577.15	-758.36	640.91	8.00	8.00	0.00
9 300.00	86.90	359.04	8 866.43	599.03	-758.72	662.74	0.00	0.00	0.00
9 400.00	86.90	359.04	8 871.83	698.87	-760.39	762.34	0.00	0.00	0.00
9 500.00	86.90	359.04	8 877.24	798.71	-762.06	861.95	0.00	0.00	0.00
9 600.00	86.90	359.04	8 882.65	898.55	-763.72	961.56	0.00	0.00	0.00
9 700.00	86.90	359.04	8 888.06	998.39	-765.39	1 061.16	0.00	0.00	0.00
9 800.00	86.90	359.04	8 893.46	1 098.23	-767.05	1 160.77	0.00	0.00	0.00
9 900.00	86.90	359.04	8 898.87	1 198.07	-768.72	1 260.38	0.00	0.00	0.00
10 000.00	86.90	359.04	8 904.28	1 297.91	-770.38	1 359.98	0.00	0.00	0.00
10 100.00	86.90	359.04	8 909.69	1 397.75	-772.05	1 459.59	0.00	0.00	0.00
10 200.00	86.90	359.04	8 915.10	1 497.59	-773.71	1 559.20	0.00	0.00	0.00
10 300.00	86.90	359.04	8 920.50	1 597.43	-775.38	1 658.80	0.00	0.00	0.00
10 400.00	86.90	359.04	8 925.91	1 697.27	-777.04	1 758.41	0.00	0.00	0.00
10 500.00	86.90	359.04	8 931.32	1 797.11	-778.71	1 858.01	0.00	0.00	0.00
10 600.00	86.90	359.04	8 936.73	1 896.95	-780.37	1 957.62	0.00	0.00	0.00
10 700.00	86.90	359.04	8 942.14	1 996.79	-782.04	2 057.23	0.00	0.00	0.00
10 800.00	86.90	359.04	8 947.54	2 096.63	-783.70	2 156.83	0.00	0.00	0.00
10 900.00	86.90	359.04	8 952.95	2 196.47	-785.37	2 256.44	0.00	0.00	0.00
11 000.00	86.90	359.04	8 958.36	2 296.31	-787.04	2 356.05	0.00	0.00	0.00
11 100.00	86.90	359.04	8 963.77	2 396.15	-788.70	2 455.65	0.00	0.00	0.00
11 200.00	86.90	359.04	8 969.17	2 495.99	-790.37	2 555.26	0.00	0.00	0.00
11 300.00	86.90	359.04	8 974.58	2 595.83	-792.03	2 654.87	0.00	0.00	0.00
11 400.00	86.90	359.04	8 979.99	2 695.67	-793.70	2 754.47	0.00	0.00	0.00
11 500.00	86.90	359.04	8 985.40	2 795.51	-795.36	2 854.08	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
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Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11 600.00	86.90	359.04	8 990.81	2 895.35	-797.03	2 953.69	0.00	0.00	0.00
11 700.00	86.90	359.04	8 996.21	2 995.19	-798.69	3 053.29	0.00	0.00	0.00
11 800.00	86.90	359.04	9 001.62	3 095.03	-800.36	3 152.90	0.00	0.00	0.00
11 900.00	86.90	359.04	9 007.03	3 194.87	-802.02	3 252.50	0.00	0.00	0.00
12 000.00	86.90	359.04	9 012.44	3 294.71	-803.69	3 352.11	0.00	0.00	0.00
12 100.00	86.90	359.04	9 017.85	3 394.55	-805.35	3 451.72	0.00	0.00	0.00
12 200.00	86.90	359.04	9 023.25	3 494.39	-807.02	3 551.32	0.00	0.00	0.00
12 300.00	86.90	359.04	9 028.66	3 594.23	-808.68	3 650.93	0.00	0.00	0.00
12 400.00	86.90	359.04	9 034.07	3 694.07	-810.35	3 750.54	0.00	0.00	0.00
12 500.00	86.90	359.04	9 039.48	3 793.91	-812.01	3 850.14	0.00	0.00	0.00
12 600.00	86.90	359.04	9 044.89	3 893.75	-813.68	3 949.75	0.00	0.00	0.00
12 700.00	86.90	359.04	9 050.29	3 993.59	-815.35	4 049.36	0.00	0.00	0.00
12 800.00	86.90	359.04	9 055.70	4 093.43	-817.01	4 148.96	0.00	0.00	0.00
12 900.00	86.90	359.04	9 061.11	4 193.27	-818.68	4 248.57	0.00	0.00	0.00
13 000.00	86.90	359.04	9 066.52	4 293.11	-820.34	4 348.18	0.00	0.00	0.00
13 100.00	86.90	359.04	9 071.92	4 392.95	-822.01	4 447.78	0.00	0.00	0.00
13 200.00	86.90	359.04	9 077.33	4 492.79	-823.67	4 547.39	0.00	0.00	0.00
13 300.00	86.90	359.04	9 082.74	4 592.63	-825.34	4 647.00	0.00	0.00	0.00
13 400.00	86.90	359.04	9 088.15	4 692.47	-827.00	4 746.60	0.00	0.00	0.00
13 500.00	86.90	359.04	9 093.56	4 792.31	-828.67	4 846.21	0.00	0.00	0.00
13 600.00	86.90	359.04	9 098.96	4 892.14	-830.33	4 945.81	0.00	0.00	0.00
13 700.00	86.90	359.04	9 104.37	4 991.98	-832.00	5 045.42	0.00	0.00	0.00
13 800.00	86.90	359.04	9 109.78	5 091.82	-833.66	5 145.03	0.00	0.00	0.00
13 900.00	86.90	359.04	9 115.19	5 191.66	-835.33	5 244.63	0.00	0.00	0.00
14 000.00	86.90	359.04	9 120.60	5 291.50	-836.99	5 344.24	0.00	0.00	0.00
14 100.00	86.90	359.04	9 126.00	5 391.34	-838.66	5 443.85	0.00	0.00	0.00
14 200.00	86.90	359.04	9 131.41	5 491.18	-840.33	5 543.45	0.00	0.00	0.00
14 300.00	86.90	359.04	9 136.82	5 591.02	-841.99	5 643.06	0.00	0.00	0.00
14 400.00	86.90	359.04	9 142.23	5 690.86	-843.66	5 742.67	0.00	0.00	0.00
14 500.00	86.90	359.04	9 147.63	5 790.70	-845.32	5 842.27	0.00	0.00	0.00
14 600.00	86.90	359.04	9 153.04	5 890.54	-846.99	5 941.88	0.00	0.00	0.00
14 700.00	86.90	359.04	9 158.45	5 990.38	-848.65	6 041.49	0.00	0.00	0.00
14 800.00	86.90	359.04	9 163.86	6 090.22	-850.32	6 141.09	0.00	0.00	0.00
14 900.00	86.90	359.04	9 169.27	6 190.06	-851.98	6 240.70	0.00	0.00	0.00
15 000.00	86.90	359.04	9 174.67	6 289.90	-853.65	6 340.30	0.00	0.00	0.00
15 100.00	86.90	359.04	9 180.08	6 389.74	-855.31	6 439.91	0.00	0.00	0.00
15 200.00	86.90	359.04	9 185.49	6 489.58	-856.98	6 539.52	0.00	0.00	0.00
15 300.00	86.90	359.04	9 190.90	6 589.42	-858.64	6 639.12	0.00	0.00	0.00
15 400.00	86.90	359.04	9 196.31	6 689.26	-860.31	6 738.73	0.00	0.00	0.00
15 500.00	86.90	359.04	9 201.71	6 789.10	-861.97	6 838.34	0.00	0.00	0.00
15 600.00	86.90	359.04	9 207.12	6 888.94	-863.64	6 937.94	0.00	0.00	0.00
15 700.00	86.90	359.04	9 212.53	6 988.78	-865.31	7 037.55	0.00	0.00	0.00
15 800.00	86.90	359.04	9 217.94	7 088.62	-866.97	7 137.16	0.00	0.00	0.00
15 900.00	86.90	359.04	9 223.35	7 188.46	-868.64	7 236.76	0.00	0.00	0.00
16 000.00	86.90	359.04	9 228.75	7 288.30	-870.30	7 336.37	0.00	0.00	0.00
16 100.00	86.90	359.04	9 234.16	7 388.14	-871.97	7 435.98	0.00	0.00	0.00
16 200.00	86.90	359.04	9 239.57	7 487.98	-873.63	7 535.58	0.00	0.00	0.00
16 300.00	86.90	359.04	9 244.98	7 587.82	-875.30	7 635.19	0.00	0.00	0.00
16 400.00	86.90	359.04	9 250.38	7 687.66	-876.96	7 734.80	0.00	0.00	0.00
16 500.00	86.90	359.04	9 255.79	7 787.50	-878.63	7 834.40	0.00	0.00	0.00
16 600.00	86.90	359.04	9 261.20	7 887.34	-880.29	7 934.01	0.00	0.00	0.00
16 700.00	86.90	359.04	9 266.61	7 987.18	-881.96	8 033.61	0.00	0.00	0.00
16 800.00	86.90	359.04	9 272.02	8 087.02	-883.62	8 133.22	0.00	0.00	0.00
16 900.00	86.90	359.04	9 277.42	8 186.86	-885.29	8 232.83	0.00	0.00	0.00

RECEIVED: May. 22, 2014

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17 000.00	86.90	359.04	9 282.83	8 286.70	-886.95	8 332.43	0.00	0.00	0.00
17 100.00	86.90	359.04	9 288.24	8 386.54	-888.62	8 432.04	0.00	0.00	0.00
17 200.00	86.90	359.04	9 293.65	8 486.38	-890.28	8 531.65	0.00	0.00	0.00
17 300.00	86.90	359.04	9 299.06	8 586.22	-891.95	8 631.25	0.00	0.00	0.00
17 400.00	86.90	359.04	9 304.46	8 686.06	-893.62	8 730.86	0.00	0.00	0.00
17 500.00	86.90	359.04	9 309.87	8 785.90	-895.28	8 830.47	0.00	0.00	0.00
17 600.00	86.90	359.04	9 315.28	8 885.74	-896.95	8 930.07	0.00	0.00	0.00
17 700.00	86.90	359.04	9 320.69	8 985.58	-898.61	9 029.68	0.00	0.00	0.00
17 800.00	86.90	359.04	9 326.10	9 085.42	-900.28	9 129.29	0.00	0.00	0.00
17 900.00	86.90	359.04	9 331.50	9 185.26	-901.94	9 228.89	0.00	0.00	0.00
18 000.00	86.90	359.04	9 336.91	9 285.10	-903.61	9 328.50	0.00	0.00	0.00
18 100.00	86.90	359.04	9 342.32	9 384.93	-905.27	9 428.10	0.00	0.00	0.00
18 200.00	86.90	359.04	9 347.73	9 484.77	-906.94	9 527.71	0.00	0.00	0.00
18 300.00	86.90	359.04	9 353.13	9 584.61	-908.60	9 627.32	0.00	0.00	0.00
18 400.00	86.90	359.04	9 358.54	9 684.45	-910.27	9 726.92	0.00	0.00	0.00
18 500.00	86.90	359.04	9 363.95	9 784.29	-911.93	9 826.53	0.00	0.00	0.00
18 600.00	86.90	359.04	9 369.36	9 884.13	-913.60	9 926.14	0.00	0.00	0.00
18 700.00	86.90	359.04	9 374.77	9 983.97	-915.26	10 025.74	0.00	0.00	0.00
18 800.00	86.90	359.04	9 380.17	10 083.81	-916.93	10 125.35	0.00	0.00	0.00
18 900.00	86.90	359.04	9 385.58	10 183.65	-918.60	10 224.96	0.00	0.00	0.00
19 000.00	86.90	359.04	9 390.99	10 283.49	-920.26	10 324.56	0.00	0.00	0.00
19 100.00	86.90	359.04	9 396.40	10 383.33	-921.93	10 424.17	0.00	0.00	0.00
Start 135.00 hold at 19187.15 MD									
19 187.15	86.90	359.04	9 401.11	10 470.34	-923.38	10 510.98	0.00	0.00	0.00
19 200.00	86.90	359.04	9 401.81	10 483.17	-923.59	10 523.78	0.00	0.00	0.00
19 300.00	86.90	359.04	9 407.21	10 583.01	-925.26	10 623.38	0.00	0.00	0.00
TD at 19322.15									
19 322.15	86.90	359.04	9 408.41	10 605.13	-925.63	10 645.45	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
8° CURVE UTLAND BU	-86.90	359.04	8 865.24	577.15	-758.36	7 255 507.51	2 025 224.25	40° 13' 48.384 N	110° 7' 18.078 W
- plan hits target center - Rectangle (sides W100.00 H0.00 D9 909.06)									
PBHL UTE TRIBAL 13-9	0.00	0.00	9 401.05	10 470.34	-923.38	7 265 396.95	2 024 906.51	40° 15' 26.155 N	110° 7' 20.211 W
- plan misses target center by 0.06ft at 19187.15ft MD (9401.11 TVD, 10470.34 N, -923.38 E) - Point									
135' PAST PBHL UTE T	0.00	0.00	9 408.35	10 605.13	-925.63	7 265 531.69	2 024 902.18	40° 15' 27.487 N	110° 7' 20.240 W
- plan misses target center by 0.06ft at 19322.15ft MD (9408.41 TVD, 10605.13 N, -925.63 E) - Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8 444.98	8 398.00	9 5/8"	9-5/8	12-1/4
1 615.00	1 612.90	13 3/8"	13-3/8	17-1/2

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**North Reference:**	True
Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	UTE TRIBAL 13-9-4-3-2WH		
Design:	Design #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2 015.77	2 013.00	Usable Water		3.10	359.04
3 609.36	3 599.00	Green River Formation		3.10	359.04
5 562.65	5 543.00	Trona		3.10	359.04
5 605.86	5 586.00	Mahogany Bench		3.10	359.04
6 464.94	6 441.00	Garden Gulch Member		3.10	359.04
6 720.16	6 695.00	Garden Gulch Member-1		3.10	359.04
6 876.90	6 851.00	Garden Gulch Member-2		3.10	359.04
7 550.11	7 521.00	Douglas Creek Member		3.10	359.04
8 272.16	8 237.00	B Limestone		3.10	359.04
8 387.57	8 347.00	Lower Black Shale		3.10	359.04
8 502.20	8 452.00	Castle Peak Limestone		3.10	359.04
8 680.80	8 598.00	CP LIMES		3.10	359.04
8 712.45	8 621.00	CP LIMES_2		3.10	359.04
8 929.48	8 750.00	Uteland Butte		3.10	359.04
8 963.00	8 765.00	Uteland Butte 'A'		3.10	359.04
8 995.01	8 778.00	Uteland Butte 'B'		3.10	359.04
9 076.23	8 805.00	Uteland Butte 'C'		3.10	359.04
9 125.11	8 817.00	Uteland Butte 'C PZ1'		3.10	359.04

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1 574.00	1 572.00	-17.38	-58.15	Start 126.00 hold at 1574.00 MD
1 700.00	1 697.71	-18.67	-66.55	Start DLS 5.00 TFO -2.14
1 744.02	1 741.56	-19.28	-70.32	Start 6263.60 hold at 1744.02 MD
8 007.62	7 970.04	-128.35	-723.61	Start DLS 5.00 TFO 113.88
8 441.83	8 395.04	-57.03	-747.78	Start Build 8.00
9 278.09	8 865.24	577.15	-758.36	Start 9909.07 hold at 9278.09 MD
19 187.15	9 401.11	10 470.34	-923.38	Start 135.00 hold at 19187.15 MD
19 322.15	9 408.41	10 605.13	-925.63	TD at 19322.15

Weatherford®

NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT
UTE TRIBAL 13 and 14-9-4-3-2WH PAD
UTE TRIBAL 13-9-4-3-2WH

UTE TRIBAL 13-9-4-3-2WH
Design #2

Anticollision Report

14 May, 2014

Weatherford®

RECEIVED: May. 22, 2014

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Reference Design #2

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2 132.22 ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 5/14/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
1 574.00	19 322.15	Design #2 (UTE TRIBAL 13-9-4-3-2WH)	MWD	MWD - Standard

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
EXISTING 14-9-3-2W						
EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTIN	1 574.00	1 570.88	771.05	767.89	244.026	CC, ES
EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTIN	9 700.00	8 888.06	1 085.26	1 040.52	24.257	SF
UTE TRIBAL 13 and 14-9-4-3-2WH PAD						
UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH	1 574.00	1 569.00	115.53			
UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH	19 322.15	19 299.63	1 269.85	858.25	3.085	SF

Offset Design EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W

Survey Program: 104-MWD

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1 574.00	1 572.00	1 570.88	1 570.75	0.00	3.16	123.86	680.16	270.40	771.05	767.89	3.16	244.026	CC, ES
1 600.00	1 597.94	1 596.43	1 596.30	0.17	3.22	123.97	680.14	270.46	772.03	768.79	3.25	237.902	
1 700.00	1 697.71	1 698.32	1 698.19	0.31	3.43	124.39	680.20	270.50	775.90	772.19	3.71	209.339	
1 800.00	1 797.23	1 797.78	1 797.65	0.58	3.64	125.68	680.01	270.61	781.42	777.24	4.18	186.790	
1 900.00	1 896.67	1 898.07	1 897.94	0.88	3.85	126.32	679.63	270.64	787.33	782.66	4.67	168.620	
2 000.00	1 996.11	1 994.32	1 994.19	1.19	4.05	126.93	679.46	270.67	793.52	788.37	5.15	154.216	
2 100.00	2 095.54	2 092.01	2 091.87	1.49	4.25	127.52	679.66	270.73	800.15	794.53	5.62	142.290	
2 200.00	2 194.98	2 192.68	2 192.54	1.79	4.46	128.11	679.80	270.73	806.77	800.67	6.11	132.104	
2 300.00	2 294.42	2 289.52	2 289.38	2.09	4.67	128.63	680.42	270.23	813.67	807.09	6.58	123.620	
2 400.00	2 393.86	2 389.37	2 389.23	2.39	4.87	129.17	681.11	269.96	820.80	813.73	7.06	116.236	
2 500.00	2 493.30	2 489.30	2 489.15	2.70	5.08	129.71	681.54	269.75	827.81	820.27	7.54	109.793	
2 600.00	2 592.74	2 589.61	2 589.47	3.00	5.29	130.25	682.01	269.68	834.99	826.97	8.02	104.128	
2 700.00	2 692.18	2 692.29	2 692.15	3.30	5.51	130.81	682.02	269.65	841.88	833.37	8.50	99.030	
2 800.00	2 791.62	2 790.97	2 790.83	3.60	5.71	131.35	681.84	269.57	848.65	839.68	8.97	94.582	
2 900.00	2 891.06	2 889.13	2 888.99	3.91	5.92	131.87	681.83	269.60	855.71	846.26	9.44	90.620	
3 000.00	2 990.50	2 989.02	2 988.88	4.21	6.13	132.40	681.84	269.69	862.88	852.96	9.92	87.014	
3 100.00	3 089.94	3 087.80	3 087.66	4.51	6.34	132.92	681.77	269.87	870.11	859.72	10.39	83.767	
3 200.00	3 189.38	3 188.00	3 187.86	4.81	6.55	133.45	681.66	270.13	877.42	866.56	10.86	80.806	
3 300.00	3 288.82	3 287.43	3 287.28	5.12	6.75	133.94	681.66	270.13	884.75	873.42	11.33	78.117	
3 400.00	3 388.26	3 386.34	3 386.19	5.42	6.96	134.44	681.57	270.35	892.19	880.39	11.79	75.651	
3 500.00	3 487.70	3 487.16	3 487.02	5.72	7.17	134.91	681.70	270.10	899.61	887.34	12.26	73.358	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W

Offset Site Error: 0.00 ft

Survey Program: 104-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
3 600.00	3 587.13	3 585.78	3 585.63	6.02	7.38	135.37	681.80	269.90	907.09	894.36	12.73	71.268	
3 700.00	3 686.57	3 686.56	3 686.41	6.33	7.59	135.83	681.81	269.85	914.64	901.45	13.20	69.314	
3 800.00	3 786.01	3 789.18	3 789.04	6.63	7.80	136.27	681.89	269.12	921.91	908.24	13.67	67.461	
3 900.00	3 885.45	3 887.51	3 887.35	6.93	8.01	136.69	681.69	268.58	929.11	914.98	14.13	65.764	
4 000.00	3 984.89	3 984.19	3 984.04	7.23	8.21	137.13	681.48	268.54	936.65	922.07	14.59	64.211	
4 100.00	4 084.33	4 082.86	4 082.71	7.54	8.42	137.57	681.41	268.63	944.45	929.41	15.05	62.760	
4 200.00	4 183.77	4 212.64	4 212.48	7.84	8.69	138.11	680.37	267.58	951.32	935.75	15.57	61.107	
4 300.00	4 283.21	4 291.54	4 291.36	8.14	8.86	138.44	679.30	266.53	957.29	941.30	15.99	59.873	
4 400.00	4 382.65	4 383.98	4 383.79	8.44	9.06	138.85	678.51	266.40	964.50	948.07	16.44	58.682	
4 500.00	4 482.09	4 486.66	4 486.47	8.75	9.27	139.27	678.28	266.15	972.19	955.28	16.90	57.524	
4 600.00	4 581.53	4 580.68	4 580.49	9.05	9.47	139.65	678.01	265.95	979.89	962.54	17.35	56.485	
4 700.00	4 680.97	4 679.66	4 679.47	9.35	9.67	140.05	677.89	266.08	987.98	970.17	17.80	55.491	
4 800.00	4 780.41	4 779.66	4 779.47	9.65	9.88	140.45	677.88	266.08	996.12	977.86	18.26	54.546	
4 900.00	4 879.85	4 882.27	4 882.08	9.96	10.10	140.86	677.45	266.06	1 003.99	985.26	18.72	53.620	
5 000.00	4 979.29	4 976.24	4 976.05	10.26	10.29	141.22	677.42	266.11	1 012.24	993.07	19.17	52.806	
5 100.00	5 078.72	5 080.13	5 079.94	10.56	10.51	141.60	677.34	266.02	1 020.40	1 000.77	19.63	51.976	
5 200.00	5 178.16	5 178.64	5 178.45	10.86	10.72	141.97	677.14	265.89	1 028.49	1 008.40	20.08	51.207	
5 300.00	5 277.60	5 277.97	5 277.78	11.17	10.93	142.34	676.89	265.99	1 036.74	1 016.20	20.54	50.476	
5 400.00	5 377.04	5 376.48	5 376.29	11.47	11.13	142.71	676.51	266.11	1 044.95	1 023.96	20.99	49.783	
5 500.00	5 476.48	5 473.59	5 473.39	11.77	11.34	143.04	676.62	266.12	1 053.49	1 032.05	21.44	49.139	
5 600.00	5 575.92	5 574.46	5 574.26	12.07	11.55	143.40	676.63	266.29	1 062.09	1 040.20	21.89	48.511	
5 700.00	5 675.36	5 677.40	5 677.21	12.38	11.76	143.75	676.50	266.21	1 070.48	1 048.13	22.35	47.896	
5 800.00	5 774.80	5 783.13	5 782.93	12.68	11.98	144.10	676.02	265.83	1 078.47	1 055.66	22.81	47.276	
5 900.00	5 874.24	5 887.00	5 886.80	12.98	12.20	144.44	675.26	264.95	1 085.96	1 062.69	23.27	46.667	
6 000.00	5 973.68	5 980.00	5 979.79	13.29	12.39	144.73	674.83	264.23	1 093.70	1 070.00	23.71	46.131	
6 100.00	6 073.12	6 073.00	6 072.79	13.59	12.59	145.02	674.75	264.01	1 102.13	1 077.98	24.15	45.641	
6 200.00	6 172.56	6 179.18	6 178.97	13.89	12.81	145.38	674.07	263.98	1 110.37	1 085.76	24.61	45.118	
6 300.00	6 272.00	6 271.33	6 271.12	14.19	13.01	145.68	673.68	263.96	1 118.78	1 093.74	25.05	44.670	
6 400.00	6 371.44	6 379.53	6 379.32	14.50	13.23	146.02	673.21	263.91	1 127.22	1 101.71	25.51	44.186	
6 500.00	6 470.88	6 487.67	6 487.44	14.80	13.46	146.41	671.18	263.62	1 134.53	1 108.56	25.97	43.680	
6 600.00	6 570.31	6 579.87	6 579.62	15.10	13.65	146.72	669.79	263.26	1 142.06	1 115.66	26.41	43.250	
6 700.00	6 669.75	6 675.02	6 674.78	15.40	13.85	147.01	669.13	263.07	1 150.31	1 123.46	26.84	42.850	
6 800.00	6 769.19	6 773.52	6 773.28	15.71	14.06	147.31	668.45	262.87	1 158.60	1 131.31	27.29	42.455	
6 900.00	6 868.63	6 868.93	6 868.68	16.01	14.26	147.59	668.16	262.76	1 167.24	1 139.51	27.73	42.094	
7 000.00	6 968.07	6 961.96	6 961.71	16.31	14.45	147.86	668.07	262.94	1 176.28	1 148.11	28.16	41.765	
7 100.00	7 067.51	7 062.70	7 062.44	16.61	14.67	148.18	667.70	264.02	1 185.82	1 157.21	28.61	41.446	
7 200.00	7 166.95	7 165.67	7 165.41	16.92	14.88	148.47	667.52	264.25	1 194.89	1 165.83	29.06	41.114	
7 300.00	7 266.39	7 273.69	7 273.44	17.22	15.11	148.76	667.18	264.16	1 203.67	1 174.14	29.52	40.769	
7 400.00	7 365.83	7 365.76	7 365.50	17.52	15.30	149.02	666.66	264.02	1 212.26	1 182.31	29.96	40.469	
7 500.00	7 465.27	7 480.81	7 480.53	17.82	15.54	149.39	664.86	264.38	1 220.59	1 190.16	30.43	40.115	
7 600.00	7 564.71	7 565.53	7 565.23	18.13	15.72	149.69	663.01	265.10	1 228.97	1 198.13	30.84	39.850	
7 700.00	7 664.15	7 664.09	7 663.78	18.43	15.92	150.00	661.88	265.87	1 237.99	1 206.71	31.28	39.577	
7 800.00	7 763.59	7 760.79	7 760.47	18.73	16.13	150.29	660.99	266.62	1 247.20	1 215.48	31.72	39.321	
7 900.00	7 863.03	7 859.09	7 858.77	19.03	16.33	150.55	660.69	267.12	1 256.60	1 224.44	32.16	39.073	
8 000.00	7 962.47	7 960.56	7 960.23	19.34	16.55	150.80	660.54	267.41	1 265.97	1 233.36	32.61	38.824	
8 100.00	8 061.96	8 061.15	8 060.82	19.59	16.76	105.95	660.36	267.56	1 272.27	1 239.21	33.06	38.483	
8 200.00	8 161.14	8 160.08	8 159.75	19.79	16.96	75.63	660.29	267.57	1 271.68	1 238.31	33.37	38.108	
8 300.00	8 259.23	8 259.24	8 258.92	19.94	17.17	63.48	660.19	267.63	1 264.41	1 230.84	33.57	37.665	
8 400.00	8 355.49	8 366.21	8 365.88	20.07	17.39	58.55	660.15	267.17	1 250.37	1 216.68	33.69	37.109	
8 500.00	8 448.83	8 468.62	8 468.29	20.18	17.61	59.41	658.97	266.21	1 229.18	1 195.45	33.73	36.438	
8 600.00	8 536.52	8 554.03	8 553.68	20.29	17.79	63.18	657.46	265.59	1 202.09	1 168.28	33.81	35.559	
8 700.00	8 616.68	8 641.76	8 641.38	20.42	17.97	68.08	655.50	264.82	1 170.56	1 136.45	34.11	34.320	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W - EXISTING 14-9-3-2W

Offset Site Error: 0.00 ft

Survey Program: 104-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8 800.00	8 687.76	8 713.71	8 713.30	20.58	18.13	73.36	653.57	263.97	1 136.66	1 102.01	34.65	32.803	
8 900.00	8 748.37	8 773.70	8 773.26	20.81	18.25	78.68	651.82	263.20	1 103.07	1 067.66	35.40	31.156	
9 000.00	8 797.34	8 820.76	8 820.29	21.15	18.35	83.49	650.29	262.60	1 072.43	1 036.15	36.28	29.557	
9 100.00	8 833.71	8 854.10	8 853.60	21.65	18.42	87.30	649.15	262.17	1 047.33	1 010.09	37.24	28.125	
9 200.00	8 856.78	8 873.84	8 873.33	22.33	18.47	89.80	648.47	261.92	1 029.97	991.69	38.28	26.909	
9 300.00	8 866.43	8 880.08	8 879.57	23.20	18.48	90.72	648.26	261.85	1 021.86	982.47	39.39	25.939	
9 332.95	8 868.21	8 880.74	8 880.23	23.52	18.48	90.76	648.23	261.84	1 021.33	981.54	39.79	25.667	
9 400.00	8 871.83	8 882.08	8 881.57	24.22	18.48	90.83	648.19	261.82	1 023.53	982.93	40.60	25.210	
9 500.00	8 877.24	8 884.07	8 883.56	25.37	18.49	90.95	648.12	261.79	1 034.90	992.99	41.90	24.698	
9 600.00	8 882.65	8 886.07	8 885.55	26.62	18.49	91.06	648.05	261.77	1 055.65	1 012.37	43.29	24.388	
9 700.00	8 888.06	8 888.06	8 887.55	27.96	18.50	91.17	647.98	261.74	1 085.26	1 040.52	44.74	24.257	SF
9 800.00	8 893.46	8 890.05	8 889.54	29.38	18.50	91.28	647.91	261.72	1 123.01	1 076.76	46.25	24.281	
9 900.00	8 898.87	8 892.05	8 891.53	30.85	18.51	91.39	647.84	261.69	1 168.13	1 120.32	47.81	24.432	
10 000.00	8 904.28	8 894.04	8 893.53	32.36	18.51	91.51	647.78	261.67	1 219.79	1 170.38	49.41	24.686	
10 100.00	8 909.69	8 896.04	8 895.52	33.93	18.51	91.62	647.71	261.64	1 277.20	1 226.15	51.05	25.018	
10 200.00	8 915.10	8 898.03	8 897.51	35.53	18.52	91.73	647.64	261.62	1 339.62	1 286.90	52.72	25.411	
10 300.00	8 920.50	8 900.03	8 899.51	37.16	18.52	91.84	647.57	261.59	1 406.39	1 351.98	54.41	25.847	
10 400.00	8 925.91	8 902.03	8 901.50	38.81	18.53	91.95	647.50	261.57	1 476.91	1 420.78	56.13	26.313	
10 500.00	8 931.32	8 904.02	8 903.50	40.50	18.53	92.07	647.43	261.54	1 550.67	1 492.81	57.86	26.799	
10 600.00	8 936.73	8 906.02	8 905.49	42.20	18.53	92.18	647.36	261.52	1 627.23	1 567.62	59.62	27.295	
10 700.00	8 942.14	8 908.01	8 907.48	43.92	18.54	92.29	647.30	261.49	1 706.22	1 644.84	61.38	27.796	
10 800.00	8 947.54	8 910.01	8 909.48	45.66	18.54	92.40	647.23	261.47	1 787.31	1 724.15	63.16	28.297	
10 900.00	8 952.95	8 912.00	8 911.47	47.41	18.55	92.51	647.16	261.44	1 870.24	1 805.28	64.95	28.793	
11 000.00	8 958.36	8 914.00	8 913.47	49.17	18.55	92.62	647.09	261.41	1 954.75	1 888.00	66.76	29.282	
11 100.00	8 963.77	8 916.00	8 915.46	50.95	18.56	92.74	647.02	261.39	2 040.67	1 972.10	68.57	29.762	
11 200.00	8 969.18	8 917.99	8 917.46	52.74	18.56	92.85	646.95	261.36	2 127.82	2 057.43	70.39	30.231	

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design UTE TRIBAL 13 and 14-9-4-3-2WH PAD - UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH - D

Offset Site Error: 0.00 ft

Survey Program: 1569-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1 574.00	1 572.00	1 569.00	1 568.43	0.00	0.00	168.30	22.77	50.12	115.53				
1 600.00	1 597.94	1 592.24	1 591.63	0.17	0.10	168.34	23.41	51.20	118.59	118.34	0.25	474.627	
1 700.00	1 697.71	1 691.52	1 690.77	0.31	0.28	168.52	26.16	55.82	130.50	129.86	0.64	202.939	
1 800.00	1 797.23	1 789.02	1 788.06	0.58	0.51	170.76	26.21	61.86	145.92	144.81	1.11	131.462	
1 900.00	1 896.67	1 887.47	1 886.24	0.88	0.75	172.71	24.61	68.93	162.68	161.15	1.53	106.214	
2 000.00	1 996.11	1 985.92	1 984.42	1.19	1.00	174.29	23.01	75.99	179.59	177.62	1.97	91.122	
2 100.00	2 095.54	2 084.37	2 082.61	1.49	1.26	175.60	21.41	83.05	196.61	194.19	2.42	81.227	
2 200.00	2 194.98	2 182.82	2 180.79	1.79	1.52	176.70	19.81	90.11	213.71	210.83	2.87	74.338	
2 300.00	2 294.42	2 281.27	2 278.97	2.09	1.78	177.63	18.21	97.17	230.88	227.54	3.33	69.288	
2 400.00	2 393.86	2 379.72	2 377.16	2.39	2.04	178.44	16.60	104.24	248.10	244.30	3.79	65.436	
2 500.00	2 493.30	2 478.17	2 475.34	2.70	2.30	179.14	15.00	111.30	265.36	261.11	4.25	62.406	
2 600.00	2 592.74	2 576.62	2 573.52	3.00	2.55	179.76	13.40	118.36	282.65	277.94	4.71	59.963	
2 700.00	2 692.18	2 675.07	2 671.71	3.30	2.81	-179.69	11.80	125.42	299.98	294.80	5.18	57.952	
2 800.00	2 791.62	2 773.52	2 769.89	3.60	3.07	-179.21	10.20	132.49	317.32	311.68	5.64	56.272	
2 900.00	2 891.06	2 871.97	2 868.07	3.91	3.33	-178.77	8.59	139.55	334.69	328.59	6.10	54.835	
3 000.00	2 990.50	2 970.42	2 966.26	4.21	3.59	-178.38	6.99	146.61	352.07	345.51	6.57	53.613	
3 100.00	3 089.94	3 068.87	3 064.44	4.51	3.85	-178.02	5.39	153.67	369.47	362.44	7.03	52.547	
3 200.00	3 189.38	3 167.32	3 162.63	4.81	4.11	-177.70	3.79	160.73	386.88	379.39	7.50	51.613	
3 300.00	3 288.82	3 265.77	3 260.81	5.12	4.37	-177.40	2.19	167.80	404.31	396.35	7.96	50.788	
3 400.00	3 388.26	3 364.22	3 358.99	5.42	4.63	-177.13	0.59	174.86	421.74	413.31	8.43	50.054	
3 500.00	3 487.70	3 462.67	3 457.18	5.72	4.89	-176.88	-1.02	181.92	439.18	430.29	8.89	49.396	
3 600.00	3 587.13	3 561.12	3 555.36	6.02	5.15	-176.65	-2.62	188.98	456.63	447.27	9.36	48.804	
3 700.00	3 686.57	3 659.57	3 653.54	6.33	5.41	-176.44	-4.22	196.05	474.08	464.26	9.82	48.267	
3 800.00	3 786.01	3 758.02	3 751.73	6.63	5.67	-176.24	-5.82	203.11	491.54	481.25	10.29	47.779	
3 900.00	3 885.45	3 856.47	3 849.91	6.93	5.93	-176.05	-7.42	210.17	509.00	498.25	10.75	47.334	
4 000.00	3 984.89	3 954.92	3 948.09	7.23	6.19	-175.88	-9.03	217.23	526.48	515.26	11.22	46.925	
4 100.00	4 084.33	4 053.37	4 046.28	7.54	6.45	-175.72	-10.63	224.29	543.95	532.26	11.69	46.549	
4 200.00	4 183.77	4 151.82	4 144.46	7.84	6.71	-175.57	-12.23	231.36	561.43	549.28	12.15	46.201	
4 300.00	4 283.21	4 250.27	4 242.64	8.14	6.97	-175.42	-13.83	238.42	578.91	566.29	12.62	45.879	
4 400.00	4 382.65	4 348.72	4 340.83	8.44	7.23	-175.29	-15.43	245.48	596.40	583.31	13.08	45.580	
4 500.00	4 482.09	4 447.17	4 439.01	8.75	7.49	-175.16	-17.04	252.54	613.88	600.33	13.55	45.302	
4 600.00	4 581.53	4 545.62	4 537.19	9.05	7.75	-175.04	-18.64	259.60	631.38	617.36	14.02	45.042	
4 700.00	4 680.97	4 644.07	4 635.38	9.35	8.01	-174.93	-20.24	266.67	648.87	634.38	14.48	44.798	
4 800.00	4 780.41	4 742.52	4 733.56	9.65	8.27	-174.82	-21.84	273.73	666.37	651.41	14.95	44.570	
4 900.00	4 879.85	4 840.97	4 831.74	9.96	8.53	-174.72	-23.44	280.79	683.86	668.45	15.42	44.355	
5 000.00	4 979.29	4 939.42	4 929.93	10.26	8.79	-174.63	-25.04	287.85	701.36	685.48	15.88	44.153	
5 100.00	5 078.72	5 037.87	5 028.11	10.56	9.05	-174.53	-26.65	294.92	718.87	702.51	16.35	43.963	
5 200.00	5 178.16	5 136.32	5 126.29	10.86	9.30	-174.45	-28.25	301.98	736.37	719.55	16.82	43.783	
5 300.00	5 277.60	5 234.77	5 224.48	11.17	9.56	-174.36	-29.85	309.04	753.87	736.59	17.29	43.612	
5 400.00	5 377.04	5 333.22	5 322.66	11.47	9.82	-174.28	-31.45	316.10	771.38	753.63	17.75	43.451	
5 500.00	5 476.48	5 431.67	5 420.84	11.77	10.08	-174.21	-33.05	323.16	788.89	770.67	18.22	43.297	
5 600.00	5 575.92	5 530.12	5 519.03	12.07	10.34	-174.13	-34.66	330.23	806.40	787.71	18.69	43.152	
5 700.00	5 675.36	5 628.57	5 617.21	12.38	10.60	-174.07	-36.26	337.29	823.91	804.75	19.15	43.013	
5 800.00	5 774.80	5 727.02	5 715.39	12.68	10.86	-174.00	-37.86	344.35	841.42	821.80	19.62	42.881	
5 900.00	5 874.24	5 825.47	5 813.58	12.98	11.12	-173.93	-39.46	351.41	858.93	838.84	20.09	42.755	
6 000.00	5 973.68	5 923.92	5 911.76	13.29	11.38	-173.87	-41.06	358.48	876.45	855.89	20.56	42.634	
6 100.00	6 073.12	6 022.37	6 009.94	13.59	11.64	-173.81	-42.67	365.54	893.96	872.94	21.02	42.519	
6 200.00	6 172.56	6 120.82	6 108.13	13.89	11.90	-173.76	-44.27	372.60	911.48	889.98	21.49	42.409	
6 300.00	6 272.00	6 219.27	6 206.31	14.19	12.16	-173.70	-45.87	379.66	928.99	907.03	21.96	42.303	
6 400.00	6 371.44	6 317.72	6 304.50	14.50	12.42	-173.65	-47.47	386.72	946.51	924.08	22.43	42.202	
6 500.00	6 470.88	6 416.17	6 402.68	14.80	12.68	-173.60	-49.07	393.79	964.03	941.13	22.90	42.105	
6 600.00	6 570.31	6 514.62	6 500.86	15.10	12.94	-173.55	-50.67	400.85	981.55	958.18	23.36	42.011	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design UTE TRIBAL 13 and 14-9-4-3-2WH PAD - UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH - D

Offset Site Error: 0.00 ft

Survey Program: 1569-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6 700.00	6 669.75	6 613.07	6 599.05	15.40	13.20	-173.50	-52.28	407.91	999.07	975.24	23.83	41.921	
6 800.00	6 769.19	6 711.52	6 697.23	15.71	13.46	-173.46	-53.88	414.97	1 016.59	992.29	24.30	41.835	
6 900.00	6 868.63	6 809.97	6 795.41	16.01	13.72	-173.41	-55.48	422.04	1 034.11	1 009.34	24.77	41.752	
7 000.00	6 968.07	6 908.42	6 893.60	16.31	13.98	-173.37	-57.08	429.10	1 051.63	1 026.39	25.24	41.671	
7 100.00	7 067.51	7 006.87	6 991.78	16.61	14.24	-173.33	-58.68	436.16	1 069.15	1 043.45	25.70	41.594	
7 200.00	7 166.95	7 105.32	7 089.96	16.92	14.50	-173.29	-60.29	443.22	1 086.67	1 060.50	26.17	41.519	
7 300.00	7 266.39	7 203.77	7 188.15	17.22	14.76	-173.25	-61.89	450.28	1 104.20	1 077.55	26.64	41.447	
7 400.00	7 365.83	7 302.22	7 286.33	17.52	15.02	-173.21	-63.49	457.35	1 121.72	1 094.61	27.11	41.377	
7 500.00	7 465.27	7 400.67	7 384.51	17.82	15.28	-173.18	-65.09	464.41	1 139.24	1 111.66	27.58	41.310	
7 600.00	7 564.71	7 499.12	7 482.70	18.13	15.54	-173.14	-66.69	471.47	1 156.77	1 128.72	28.05	41.244	
7 700.00	7 664.15	7 597.57	7 580.88	18.43	15.80	-173.11	-68.29	478.53	1 174.29	1 145.78	28.52	41.181	
7 800.00	7 763.59	7 696.02	7 679.06	18.73	16.06	-173.07	-69.90	485.59	1 191.82	1 162.83	28.98	41.120	
7 900.00	7 863.03	7 794.47	7 777.25	19.03	16.32	-173.04	-71.50	492.66	1 209.34	1 179.89	29.45	41.061	
8 000.00	7 962.47	7 892.92	7 875.43	19.34	16.58	-173.01	-73.10	499.72	1 226.87	1 196.95	29.92	41.003	
8 100.00	8 061.96	7 991.44	7 973.68	19.59	16.84	141.42	-74.70	506.79	1 243.32	1 212.92	30.39	40.907	
8 200.00	8 161.14	8 104.51	8 086.47	19.79	17.11	110.43	-74.16	514.38	1 256.91	1 226.07	30.83	40.766	
8 300.00	8 259.23	8 228.88	8 210.02	19.94	17.32	97.31	-61.68	520.10	1 266.19	1 234.98	31.21	40.569	
8 400.00	8 355.49	8 355.14	8 333.47	20.07	17.50	90.92	-35.70	522.86	1 270.87	1 239.31	31.56	40.264	
8 500.00	8 448.83	8 470.80	8 443.43	20.18	17.65	89.34	-0.03	522.80	1 271.44	1 239.53	31.91	39.845	
8 600.00	8 536.52	8 569.03	8 531.85	20.29	17.76	89.57	42.57	522.08	1 271.39	1 239.10	32.28	39.381	
8 700.00	8 616.68	8 667.95	8 614.17	20.42	17.88	89.81	97.28	521.16	1 271.35	1 238.57	32.77	38.792	
8 800.00	8 687.76	8 767.60	8 688.68	20.58	18.03	90.05	163.33	520.05	1 271.33	1 237.88	33.45	38.009	
8 832.47	8 708.65	8 800.12	8 710.92	20.64	18.09	90.13	187.04	519.65	1 271.33	1 237.60	33.73	37.691	
8 900.00	8 748.37	8 868.02	8 753.76	20.81	18.26	90.30	239.68	518.76	1 271.33	1 236.96	34.38	36.984	
9 000.00	8 797.34	8 969.20	8 807.90	21.15	18.64	90.54	325.04	517.33	1 271.36	1 235.75	35.61	35.706	
9 100.00	8 833.71	9 071.14	8 849.74	21.65	19.25	90.77	417.90	515.76	1 271.40	1 234.23	37.17	34.207	
9 200.00	8 856.78	9 173.82	8 878.13	22.33	20.10	90.98	516.47	514.10	1 271.46	1 232.40	39.05	32.556	
9 300.00	8 866.43	9 277.21	8 892.19	23.20	21.14	91.16	618.79	512.38	1 271.52	1 230.29	41.22	30.843	
9 400.00	8 871.83	9 377.47	8 897.65	24.22	22.28	91.16	718.89	510.69	1 271.50	1 227.90	43.60	29.161	
9 500.00	8 877.24	9 477.47	8 903.06	25.37	23.53	91.16	818.73	509.01	1 271.48	1 225.32	46.17	27.540	
9 600.00	8 882.65	9 577.47	8 908.47	26.62	24.86	91.16	918.57	507.33	1 271.47	1 222.56	48.90	25.999	
9 700.00	8 888.06	9 677.47	8 913.87	27.96	26.26	91.16	1 018.41	505.65	1 271.45	1 219.67	51.78	24.554	
9 800.00	8 893.46	9 777.47	8 919.28	29.38	27.73	91.16	1 118.25	503.96	1 271.43	1 216.65	54.78	23.210	
9 900.00	8 898.87	9 877.47	8 924.69	30.85	29.24	91.16	1 218.09	502.28	1 271.42	1 213.54	57.88	21.967	
10 000.00	8 904.28	9 977.47	8 930.10	32.36	30.81	91.16	1 317.93	500.60	1 271.40	1 210.34	61.06	20.821	
10 100.00	8 909.69	10 077.47	8 935.50	33.93	32.41	91.16	1 417.77	498.92	1 271.38	1 207.06	64.32	19.766	
10 200.00	8 915.10	10 177.47	8 940.91	35.53	34.04	91.16	1 517.60	497.24	1 271.37	1 203.72	67.64	18.795	
10 300.00	8 920.50	10 277.47	8 946.32	37.16	35.71	91.16	1 617.44	495.55	1 271.35	1 200.33	71.02	17.902	
10 400.00	8 925.91	10 377.47	8 951.72	38.81	37.40	91.16	1 717.28	493.87	1 271.33	1 196.90	74.44	17.079	
10 500.00	8 931.32	10 477.47	8 957.13	40.50	39.11	91.16	1 817.12	492.19	1 271.32	1 193.42	77.90	16.320	
10 600.00	8 936.73	10 577.47	8 962.54	42.20	40.83	91.16	1 916.96	490.51	1 271.30	1 189.91	81.40	15.619	
10 700.00	8 942.14	10 677.47	8 967.95	43.92	42.58	91.16	2 016.80	488.83	1 271.28	1 186.36	84.92	14.970	
10 800.00	8 947.54	10 777.47	8 973.35	45.66	44.34	91.16	2 116.64	487.14	1 271.27	1 182.79	88.48	14.368	
10 900.00	8 952.95	10 877.47	8 978.76	47.41	46.11	91.16	2 216.48	485.46	1 271.25	1 179.20	92.06	13.809	
11 000.00	8 958.36	10 977.47	8 984.17	49.17	47.90	91.16	2 316.32	483.78	1 271.24	1 175.58	95.66	13.290	
11 100.00	8 963.77	11 077.47	8 989.58	50.95	49.70	91.16	2 416.16	482.10	1 271.22	1 171.94	99.28	12.805	
11 200.00	8 969.18	11 177.47	8 994.98	52.74	51.50	91.16	2 516.00	480.42	1 271.20	1 168.29	102.91	12.352	
11 300.00	8 974.58	11 277.47	9 000.39	54.53	53.32	91.16	2 615.84	478.73	1 271.19	1 164.62	106.56	11.929	
11 400.00	8 979.99	11 377.47	9 005.80	56.34	55.14	91.16	2 715.68	477.05	1 271.17	1 160.94	110.23	11.532	
11 500.00	8 985.40	11 477.47	9 011.20	58.15	56.96	91.16	2 815.52	475.37	1 271.15	1 157.25	113.90	11.160	
11 600.00	8 990.81	11 577.47	9 016.61	59.97	58.80	91.16	2 915.36	473.69	1 271.14	1 153.54	117.59	10.810	
11 700.00	8 996.21	11 677.47	9 022.02	61.80	60.64	91.16	3 015.20	472.01	1 271.12	1 149.83	121.29	10.480	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design UTE TRIBAL 13 and 14-9-4-3-2WH PAD - UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH - D

Offset Site Error: 0.00 ft

Survey Program: 1569-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
11 800.00	9 001.62	11 777.47	9 027.43	63.63	62.48	91.16	3 115.04	470.33	1 271.10	1 146.10	125.00	10.169	
11 900.00	9 007.03	11 877.47	9 032.83	65.47	64.33	91.16	3 214.88	468.64	1 271.09	1 142.37	128.72	9.875	
12 000.00	9 012.44	11 977.47	9 038.24	67.31	66.19	91.16	3 314.72	466.96	1 271.07	1 138.63	132.44	9.597	
12 100.00	9 017.85	12 077.47	9 043.65	69.16	68.05	91.16	3 414.56	465.28	1 271.05	1 134.88	136.17	9.334	
12 200.00	9 023.25	12 177.47	9 049.05	71.01	69.91	91.16	3 514.40	463.60	1 271.04	1 131.13	139.91	9.085	
12 300.00	9 028.66	12 277.47	9 054.46	72.87	71.77	91.16	3 614.24	461.92	1 271.02	1 127.37	143.65	8.848	
12 400.00	9 034.07	12 377.47	9 059.87	74.72	73.64	91.16	3 714.07	460.23	1 271.00	1 123.60	147.40	8.623	
12 500.00	9 039.48	12 477.47	9 065.28	76.59	75.51	91.16	3 813.91	458.55	1 270.99	1 119.83	151.16	8.408	
12 600.00	9 044.89	12 577.47	9 070.68	78.45	77.39	91.16	3 913.75	456.87	1 270.97	1 116.05	154.92	8.204	
12 700.00	9 050.29	12 677.47	9 076.09	80.32	79.26	91.16	4 013.59	455.19	1 270.95	1 112.27	158.68	8.010	
12 800.00	9 055.70	12 777.47	9 081.50	82.19	81.14	91.16	4 113.43	453.51	1 270.94	1 108.49	162.45	7.824	
12 900.00	9 061.11	12 877.47	9 086.90	84.06	83.02	91.16	4 213.27	451.82	1 270.92	1 104.70	166.22	7.646	
13 000.00	9 066.52	12 977.47	9 092.31	85.94	84.91	91.16	4 313.11	450.14	1 270.90	1 100.91	170.00	7.476	
13 100.00	9 071.92	13 077.47	9 097.72	87.82	86.79	91.16	4 412.95	448.46	1 270.89	1 097.11	173.77	7.313	
13 200.00	9 077.33	13 177.47	9 103.13	89.70	88.68	91.16	4 512.79	446.78	1 270.87	1 093.31	177.56	7.158	
13 300.00	9 082.74	13 277.47	9 108.53	91.58	90.57	91.16	4 612.63	445.10	1 270.85	1 089.51	181.34	7.008	
13 400.00	9 088.15	13 377.47	9 113.94	93.46	92.46	91.16	4 712.47	443.41	1 270.84	1 085.71	185.13	6.865	
13 500.00	9 093.56	13 477.47	9 119.35	95.35	94.35	91.16	4 812.31	441.73	1 270.82	1 081.90	188.92	6.727	
13 600.00	9 098.96	13 577.47	9 124.76	97.23	96.24	91.16	4 912.15	440.05	1 270.80	1 078.09	192.71	6.594	
13 700.00	9 104.37	13 677.47	9 130.16	99.12	98.14	91.16	5 011.99	438.37	1 270.79	1 074.28	196.51	6.467	
13 800.00	9 109.78	13 777.47	9 135.57	101.01	100.03	91.16	5 111.83	436.69	1 270.77	1 070.46	200.31	6.344	
13 900.00	9 115.19	13 877.47	9 140.98	102.90	101.93	91.16	5 211.67	435.01	1 270.75	1 066.65	204.11	6.226	
14 000.00	9 120.60	13 977.47	9 146.38	104.80	103.83	91.16	5 311.51	433.32	1 270.74	1 062.83	207.91	6.112	
14 100.00	9 126.00	14 077.47	9 151.79	106.69	105.72	91.16	5 411.35	431.64	1 270.72	1 059.01	211.71	6.002	
14 200.00	9 131.41	14 177.47	9 157.20	108.58	107.62	91.16	5 511.19	429.96	1 270.70	1 055.19	215.52	5.896	
14 300.00	9 136.82	14 277.47	9 162.61	110.48	109.52	91.16	5 611.03	428.28	1 270.69	1 051.36	219.32	5.794	
14 400.00	9 142.23	14 377.47	9 168.01	112.38	111.43	91.16	5 710.87	426.60	1 270.67	1 047.54	223.13	5.695	
14 500.00	9 147.64	14 477.47	9 173.42	114.27	113.33	91.16	5 810.70	424.91	1 270.65	1 043.71	226.94	5.599	
14 600.00	9 153.04	14 577.47	9 178.83	116.17	115.23	91.16	5 910.54	423.23	1 270.64	1 039.89	230.75	5.507	
14 700.00	9 158.45	14 677.47	9 184.23	118.07	117.14	91.16	6 010.38	421.55	1 270.62	1 036.06	234.56	5.417	
14 800.00	9 163.86	14 777.47	9 189.64	119.97	119.04	91.16	6 110.22	419.87	1 270.60	1 032.23	238.38	5.330	
14 900.00	9 169.27	14 877.47	9 195.05	121.88	120.95	91.16	6 210.06	418.19	1 270.59	1 028.39	242.19	5.246	
15 000.00	9 174.67	14 977.47	9 200.46	123.78	122.85	91.16	6 309.90	416.50	1 270.57	1 024.56	246.01	5.165	
15 100.00	9 180.08	15 077.47	9 205.86	125.68	124.76	91.16	6 409.74	414.82	1 270.55	1 020.73	249.83	5.086	
15 200.00	9 185.49	15 177.47	9 211.27	127.58	126.67	91.16	6 509.58	413.14	1 270.54	1 016.89	253.65	5.009	
15 300.00	9 190.90	15 277.47	9 216.68	129.49	128.57	91.16	6 609.42	411.46	1 270.52	1 013.06	257.47	4.935	
15 400.00	9 196.31	15 377.47	9 222.08	131.39	130.48	91.16	6 709.26	409.78	1 270.51	1 009.22	261.29	4.863	
15 500.00	9 201.71	15 477.47	9 227.49	133.30	132.39	91.16	6 809.10	408.09	1 270.49	1 005.38	265.11	4.792	
15 600.00	9 207.12	15 577.47	9 232.90	135.20	134.30	91.16	6 908.94	406.41	1 270.47	1 001.54	268.93	4.724	
15 700.00	9 212.53	15 677.47	9 238.31	137.11	136.21	91.16	7 008.78	404.73	1 270.46	997.70	272.75	4.658	
15 800.00	9 217.94	15 777.47	9 243.71	139.02	138.12	91.16	7 108.62	403.05	1 270.44	993.86	276.58	4.593	
15 900.00	9 223.35	15 877.47	9 249.12	140.93	140.03	91.16	7 208.46	401.37	1 270.42	990.02	280.40	4.531	
16 000.00	9 228.75	15 977.47	9 254.53	142.84	141.94	91.16	7 308.30	399.69	1 270.41	986.18	284.23	4.470	
16 100.00	9 234.16	16 077.47	9 259.93	144.74	143.85	91.16	7 408.14	398.00	1 270.39	982.34	288.05	4.410	
16 200.00	9 239.57	16 177.47	9 265.34	146.65	145.77	91.16	7 507.98	396.32	1 270.37	978.49	291.88	4.352	
16 300.00	9 244.98	16 277.47	9 270.75	148.56	147.68	91.16	7 607.82	394.64	1 270.36	974.65	295.71	4.296	
16 400.00	9 250.38	16 377.47	9 276.16	150.47	149.59	91.16	7 707.66	392.96	1 270.34	970.80	299.54	4.241	
16 500.00	9 255.79	16 477.47	9 281.56	152.38	151.50	91.16	7 807.50	391.28	1 270.32	966.96	303.36	4.187	
16 600.00	9 261.20	16 577.47	9 286.97	154.29	153.42	91.16	7 907.34	389.59	1 270.31	963.11	307.19	4.135	
16 700.00	9 266.61	16 677.47	9 292.38	156.21	155.33	91.16	8 007.17	387.91	1 270.29	959.27	311.02	4.084	
16 800.00	9 272.02	16 777.47	9 297.79	158.12	157.25	91.16	8 107.01	386.23	1 270.27	955.42	314.85	4.034	
16 900.00	9 277.42	16 877.47	9 303.19	160.03	159.16	91.16	8 206.85	384.55	1 270.26	951.57	318.68	3.986	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Offset Design UTE TRIBAL 13 and 14-9-4-3-2WH PAD - UTE TRIBAL 14-9-4-3-2WH - UTE TRIBAL 14-9-4-3-2WH - D

Offset Site Error: 0.00 ft

Survey Program: 1569-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
17 000.00	9 282.83	16 977.47	9 308.60	161.94	161.07	91.16	8 306.69	382.87	1 270.24	947.72	322.52	3.939	
17 100.00	9 288.24	17 077.47	9 314.01	163.85	162.99	91.16	8 406.53	381.18	1 270.22	943.87	326.35	3.892	
17 200.00	9 293.65	17 177.47	9 319.41	165.77	164.91	91.16	8 506.37	379.50	1 270.21	940.03	330.18	3.847	
17 300.00	9 299.06	17 277.47	9 324.82	167.68	166.82	91.16	8 606.21	377.82	1 270.19	936.18	334.01	3.803	
17 400.00	9 304.46	17 377.47	9 330.23	169.59	168.74	91.16	8 706.05	376.14	1 270.17	932.33	337.85	3.760	
17 500.00	9 309.87	17 477.47	9 335.64	171.51	170.65	91.16	8 805.89	374.46	1 270.16	928.48	341.68	3.717	
17 600.00	9 315.28	17 577.47	9 341.04	173.42	172.57	91.16	8 905.73	372.78	1 270.14	924.62	345.52	3.676	
17 700.00	9 320.69	17 677.47	9 346.45	175.34	174.49	91.16	9 005.57	371.09	1 270.12	920.77	349.35	3.636	
17 800.00	9 326.10	17 777.47	9 351.86	177.25	176.40	91.16	9 105.41	369.41	1 270.11	916.92	353.19	3.596	
17 900.00	9 331.50	17 877.47	9 357.26	179.17	178.32	91.16	9 205.25	367.73	1 270.09	913.07	357.02	3.557	
18 000.00	9 336.91	17 977.47	9 362.67	181.08	180.24	91.16	9 305.09	366.05	1 270.07	909.22	360.86	3.520	
18 100.00	9 342.32	18 077.47	9 368.08	183.00	182.15	91.16	9 404.93	364.37	1 270.06	905.36	364.69	3.483	
18 200.00	9 347.73	18 177.47	9 373.49	184.91	184.07	91.16	9 504.77	362.68	1 270.04	901.51	368.53	3.446	
18 300.00	9 353.13	18 277.47	9 378.89	186.83	185.99	91.16	9 604.61	361.00	1 270.02	897.66	372.37	3.411	
18 400.00	9 358.54	18 377.47	9 384.30	188.75	187.91	91.16	9 704.45	359.32	1 270.01	893.80	376.20	3.376	
18 500.00	9 363.95	18 477.47	9 389.71	190.66	189.82	91.16	9 804.29	357.64	1 269.99	889.95	380.04	3.342	
18 600.00	9 369.36	18 577.47	9 395.11	192.58	191.74	91.16	9 904.13	355.96	1 269.97	886.10	383.88	3.308	
18 700.00	9 374.77	18 677.47	9 400.52	194.49	193.66	91.16	10 003.97	354.27	1 269.96	882.24	387.72	3.275	
18 800.00	9 380.17	18 777.47	9 405.93	196.41	195.58	91.16	10 103.81	352.59	1 269.94	878.39	391.56	3.243	
18 900.00	9 385.58	18 877.47	9 411.34	198.33	197.50	91.16	10 203.64	350.91	1 269.92	874.53	395.39	3.212	
19 000.00	9 390.99	18 977.47	9 416.74	200.25	199.42	91.16	10 303.48	349.23	1 269.91	870.68	399.23	3.181	
19 100.00	9 396.40	19 077.47	9 422.15	202.16	201.34	91.16	10 403.32	347.55	1 269.89	866.82	403.07	3.151	
19 200.00	9 401.81	19 177.47	9 427.56	204.08	203.26	91.16	10 503.16	345.86	1 269.87	862.96	406.91	3.121	
19 300.00	9 407.21	19 277.47	9 432.97	206.00	205.17	91.16	10 603.00	344.18	1 269.86	859.11	410.75	3.092	
19 322.15	9 408.41	19 299.63	9 434.16	206.42	205.60	91.16	10 625.12	343.81	1 269.85	858.25	411.60	3.085	SF

Weatherford

Weatherford International Ltd.

Anticollision Report

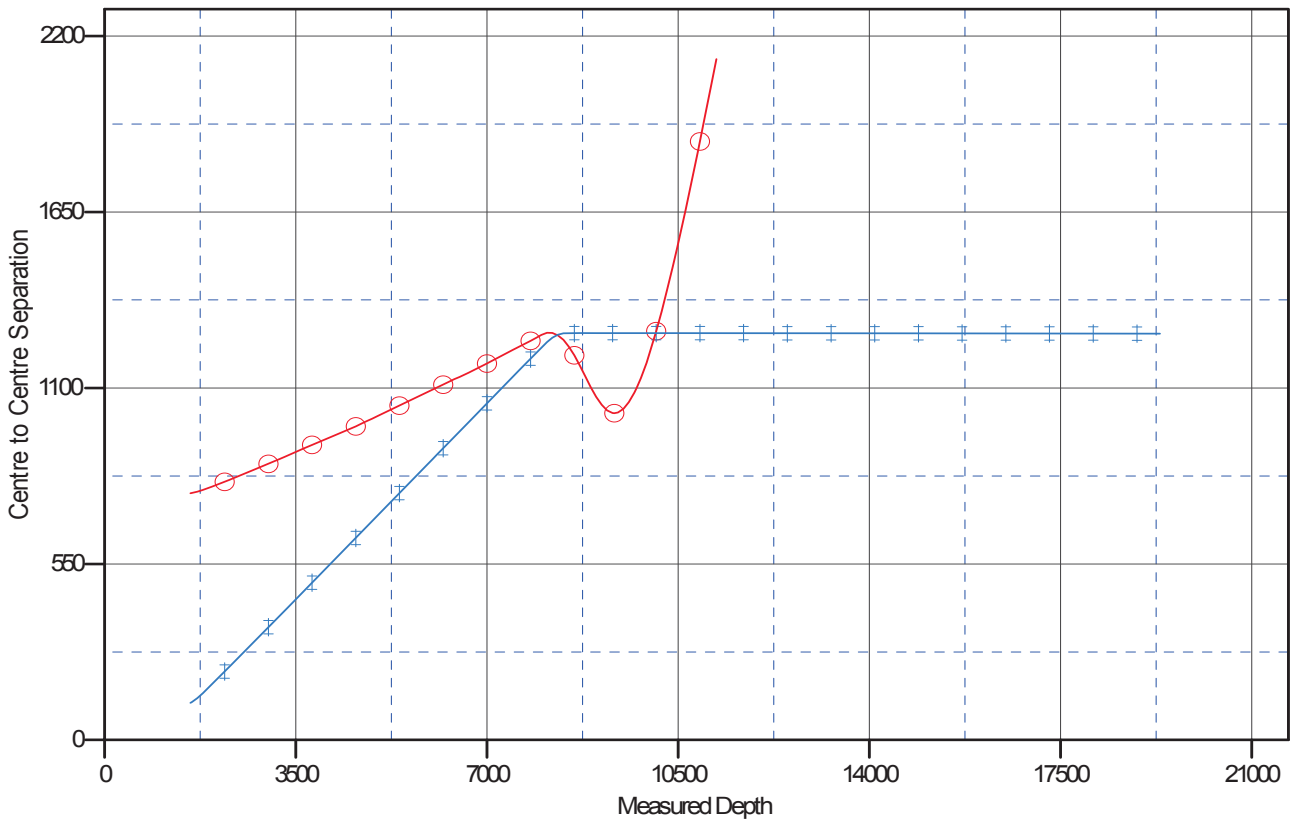
Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5284.00ft (Pioneer 78)
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: UTE TRIBAL 13-9-4-3-2WH
Coordinate System is US State Plane 1983, Utah Central Zone
Grid Convergence at Surface is: 0.88°

Ladder Plot



LEGEND

ΓING 14-9-3-2W, EXISTING 14-9-3-2W V0

UTE TRIBAL 14-9-4-3-2WH, UTE TRIBAL 14-9-4-3-2WH, Design #2 V0

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford

Weatherford International Ltd.

Anticollision Report

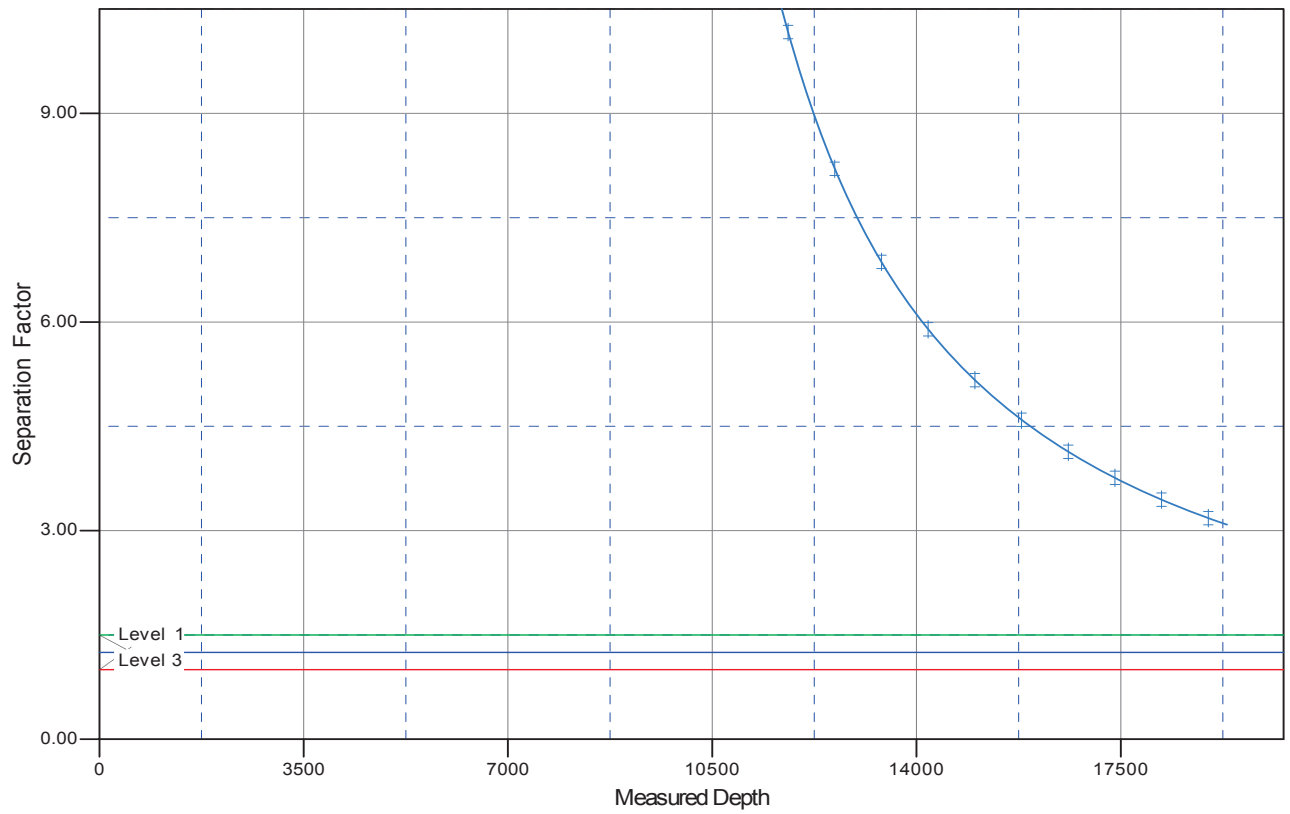
Weatherford

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well UTE TRIBAL 13-9-4-3-2WH
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Reference Site:	UTE TRIBAL 13 and 14-9-4-3-2WH PAD	**MD Reference:**	WELL @ 5284.00ft (Pioneer 78)
Site Error:	0.00 ft	**North Reference:**	True
Reference Well:	UTE TRIBAL 13-9-4-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	UTE TRIBAL 13-9-4-3-2WH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Design #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5284.00ft (Pioneer 78)
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: UTE TRIBAL 13-9-4-3-2WH
Coordinate System is US State Plane 1983, Utah Central Zone
Grid Convergence at Surface is: 0.88°

Separation Factor Plot



LEGEND

ITING 14-9-3-2W, EXISTING 14-9-3-2W V0

UTE TRIBAL 14-9-4-3-2WH, UTE TRIBAL 14-9-4-3-2WH, Design #2 V0

RECEIVED: May. 22, 2014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626269

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
UTE TRIBAL 13-9-4-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013520790000

3. ADDRESS OF OPERATOR:
1001 17th Street, Suite 2000 , Denver, CO, 80202

PHONE NUMBER:
303 382-4443 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0276 FNL 1452 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 3/24/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: FIRMUS Construction Materia

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached FIRMUS Process Post Job Report.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 26, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Melissa Luke	303 323-9769	Regulatory Technician
SIGNATURE		**DATE**
N/A		8/26/2014

Firmus® Process Subsequent Sundry Notice:

This Subsequent Sundry Notice is being submitted to report that the drill pad at the Ute Tribal 13-9-4-3-2WH/14-9-4-3-2WH location was constructed predominantly from oil base drilling cuttings that had been generated during earlier drilling at the locations listed below. After the drilling at those earlier-drilled locations, the cuttings were prestabilized, and a total of 4,550 Loose Cubic Yards (LCY) of these prestabilized drill cuttings from the locations listed below were assembled at the Ute Tribal 13-9-4-3-2WH/14-9-4-3-2WH location, where they were consolidated by a Firmus® process into the drilling pad for that location. Attached is the Firmus® Process Post Job Report for your review and records.

The previously drilled locations from which pre-stabilized drilling cuttings were taken and the amounts taken from each location were: (1). Ute Tribal 4-1-12-3-4WH (API #43013516420000): 901 LCY; (2). Ute Tribal 16-12-1-3-4WH (API #43013515480000): 790 LCY; (3) Close 4-15-22-3-2WH (API #43013521060000): 1186 LCY; (4) Lejune 1-17-3-2WH (API #43013518530000): 1088 LCY; and (5) Patterson 4-9-3-3WH (API #43013521080000): 585 LCY.

RECEIVED: Aug. 26, 2014

NEWFIELD

March 13, 2014

Murray Sheep Ranch, LLC
c/o Dallas Murray, Manager
P.O. Box 96
Myton, UT 84052

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: Oil Based Mud Cuttings
Township 3 South, Range 2 West
Section 16: N2NW
Duchesne County, Utah

Dear Mr. Murray:

Newfield Production Company ("Newfield") is preparing to construct the UT 13-9-4-3-2WH and UT 14-9-4-3-2WH access road and drillsite location on your property. Newfield requests your permission to use treated oil based mud cuttings in the construction process of the aforementioned drillsite location. Oil based mud is often used in the drilling process, but once drilling is completed, the oil based mud cuttings are dried and treated to render them harmless, known as a "Post-Firmus Process", and usable as a base material for drillsite construction.

In the application process, a six (6) inch layer of the treated oil based mud cuttings will be distributed over the natural ground, or subgrade of the location, and will serve as the base layer of the drillsite location. Lastly, a two to three (2-3) inch layer of gravel will be laid over the top of the treated oil based mud cuttings to complete the construction process. The benefits of using the treated oil based mud cuttings include decreased maintenance from weather related erosion and vastly improved dust control compared to standard building materials. Furthermore, the Post-Firmus Process is environmentally friendly and the treated cuttings serve as an excellent top soil upon reclamation of the drillsite.

If the forgoing meets your approval, please sign in the space provided.

If you have any questions, I can be reached at (303) 383-4153.

Sincerely,

Peter Burns
Sr. Landman
pburns@newfield.com

AGREED to and ACCEPTED this 13th **day of** March **, 2014.**

Murray Sheep Ranch, LLC
By: Dallas Murray, Manager

FIRMUS® POST JOB REPORT

WELL NAME: Ute Tribal 13/14-9-4-3-2WH AFE #: 40648D/40651D REPORT DATE: 07/08/14

START DATE: 03/24/14 COMPLETION DATE: 04/12/14 SCOTT QUOTE #: FC2801-UT

COUNTY: Duchesne LATITUDE: 40° 13' 42.68" North LONGITUDE: 110° 07' 08.3" West

JOB SUMMARY:

Drill Cuttings were Pre-stabilized on the following wells either during drilling or after drilling was completed.

Well Name	AFE #	Sampling Date	Volume
Ute Tribal 4-1-12-3-4WH	27715D	9/17/2013	901 LCY
Ute Tribal 16-12-1-3-4WH	40432D	8/22/2013	790 LCY
Close 4-15-22-3-2WH	40709D	11/12/2013	1186 LCY
Lejeune 1-17-3-2WH	27960D	10/14/2013	1088 LCY
Patterson 4-9-3-3WH	40635D	10/14/2013	585 LCY

A total of 4550 Loose Cubic Yards (LCY) of Pre-stabilized construction material was placed in a 430' x 360' pad area less a 130' x 100' pit area to form the drill pad at the Ute Tribal 13/14-9-4-3-2WH

Analytical testing was performed on the cuttings from the generating locations. Confirmatory sampling and testing was performed on the receiving site. Confirmatory samples are taken on every 1,000 Compacted Cubic Yards (CCY) of pre-stabilized cuttings. Four grab samples are taken from each 1,000 CCY and composited for testing. All confirmatory Leachate and Geotechnical results fall within acceptable levels.

Enclosed

CONFIRMATORY TEST SUMMARY

	Leachate Summary		
	Sample A	Sample B	Sample C
Benzene (mg/kg)	<0.00500	<0.00500	<0.00500
C6-C36 TPH (mg/L)	2.54	4.05	3.11
pH (SU)	11.9	12.0	12.1
Chloride (mg/L)	266	269	283
Metals			
SPLP Arsenic (mg/L)	<0.0100	<0.0100	<0.0100
SPLP Cadmium (mg/L)	<0.00500	<0.00500	<0.00500
SPLP Barium (mg/L)	<2.00	<2.00	<2.00
SPLP Chromium (mg/L)	<0.100	<0.100	<0.100
SPLP Lead (mg/L)	<0.00500	<0.00500	<0.00500
SPLP Mercury (mg/L)	<0.00200	<0.00200	<0.00200
SPLP Selenium (mg/L)	<0.0500	<0.0500	<0.0500
SPLP Silver (mg/L)	<0.100	<0.100	<0.100
SPLP Zinc (mg/L)	<5.00	<5.00	<5.00

	Geotechnical Summary		
	A	B	C
Compressive Strength (psi)	314.5	338.7	419.7
Hydraulic Conductivity (cm/sec)	4.52E-08	2.57E-08	2.38E-08

ANALYTICAL SUMMARY

	Source Locations				
	Ute Tribal 4-1-12-3-4WH Pioneer Rig # 78	Ute Tribal 16-12-1-3-4WH Pioneer Rig # 78	Close 4-15-22-3-2WH Pioneer Rig # 78	Lejeune 1-17-3-2WH Pioneer Rig # 44	Patterson 4-9-3-3WH Pioneer Rig # 44
Cubic Yards	901	790	1,186	1,088	585
Total Solids (%)	91.3	88.2	91.5	88.0	89.6
Benzene (mg/kg)	<0.103	<0.250	<0.250	<0.136	<0.192
C6-C36 TPH (mg/kg)	102,000	239,000	111,000	153,000	141,000
pH (SU)	10.1	11.1	11.2	10.8	10.7
Chloride (mg/kg)	3,260	1,800	2,290	4,940	8,320
Sulfates (mg/kg)	7,510	<100	592	503	509
Metals					
Arsenic (mg/kg)	6.86	3.44	5.63	4.45	4.21
Cadmium (mg/kg)	<2.50	<2.50	<2.50	<2.50	<2.50
True Total Barium (mg/kg)	194,000	406,000	259,000	239,000	175,000
Chromium (mg/kg)	16.8	7.01	13.8	9.28	13.1
Lead (mg/kg)	3.91	<2.50	6.95	6.25	8.54
Mercury (mg/kg)	0.217	0.0848	0.109	0.0496	0.056
Selenium (mg/kg)	<2.50	<2.50	<2.50	<2.50	<2.50
Silver (mg/kg)	<2.50	<2.50	<2.50	<2.50	<2.50
Zinc (mg/kg)	31.5	21.6	15.4	26.9	49.3

Ute Tribal 13/14-9-4-3-2WH
FC2801-UT

GCO Labs, LLC
3505 West Loop 281
Longview, Texas 75604
903 / 291-0137
www.gco-labs.com

Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **FC2801-UT**
Cust. Sample: **Firmus-A**
Lab ID: 140610N001

Collected; 4/9/2014
Received: 6/10/2014
Report Date: 6/25/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	266	mg/L	LA 29B	6/24/2014	11:31	fgo
pH@25C on 7-Day Leach	11.9	SU	LA 29B	6/18/2014	13:20	fgo
Prep. 7-Day Day Leachate	400/115	mL/g	LA 29B	6/18/2014	12:00	fgo
Total Solids for Dry Wt	93.2	%	SM 2540 G	6/10/2014	14:45	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	6/24/2014	10:27	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	6/10/2014	15:15	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	6/15/2014	8:50	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Zinc	< 5.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	6/17/2014	11:10	fgo
SPLP Mercury	< 0.00200	mg/L	SW-846 7470A	6/18/2014	10:52	fgo
SPLP Benzene	< 0.00500	mg/L	SW-846 8260B	6/24/2014	3:40	fgo
1005 TPH Extraction	3/116	mL/mL	TNRCC TX 1005	6/18/2014	11:19	fgo
C12 - C28 TPH, 7-Day Leach	2.54	mg/L	TNRCC TX 1005	6/23/2014	18:33	fgo
C28 - C36 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	18:33	fgo
C6 - C12 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	18:33	fgo
C6 - C36 TPH, 7-Day Leach	2.54	mg/L	TNRCC TX 1005	6/23/2014	18:33	fgo

GCO Labs, LLC
3505 West Loop 281
Longview, Texas 75604
903 / 291-0137
www.gco-labs.com

Project: **FC2801-UT**
Cust. Sample: **Firmus-B**
Lab ID: 140610N002

Collected; 4/9/2014
Received: 6/10/2014
Report Date: 6/25/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	269	mg/L	LA 29B	6/24/2014	13:31	fgo
pH@25C on 7-Day Leach	12.0	SU	LA 29B	6/18/2014	13:20	fgo
Prep. 7-Day Day Leachate	400/114	mL/g	LA 29B	6/18/2014	12:00	fgo
Total Solids for Dry Wt	93.3	%	SM 2540 G	6/10/2014	14:45	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	6/24/2014	10:27	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	6/11/2014	15:38	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	6/15/2014	8:50	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Zinc	< 5.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	6/17/2014	11:10	fgo
SPLP Mercury	< 0.00200	mg/L	SW-846 7470A	6/18/2014	10:52	fgo
SPLP Benzene	< 0.00500	mg/L	SW-846 8260B	6/24/2014	2:10	fgo
1005 TPH Extraction	3/116	mL/mL	TNRCC TX 1005	6/18/2014	11:19	fgo
C12 - C28 TPH, 7-Day Leach	2.70	mg/L	TNRCC TX 1005	6/23/2014	20:09	fgo
C28 - C36 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	20:09	fgo
C6 - C12 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	20:09	fgo
C6 - C36 TPH, 7-Day Leach	4.05	mg/L	TNRCC TX 1005	6/23/2014	20:09	fgo

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Project: **FC2801-UT**
Cust. Sample: **Firmus-C**
Lab ID: 140610N003

Collected; 4/9/2014
Received: 6/10/2014
Report Date: 6/25/2014

Analysis	Results	Units	Method	Date	Time	Tech
Chloride, 7-Day Leach	283	mg/L	LA 29B	6/24/2014	13:44	fgo
pH@25C on 7-Day Leach	12.1	SU	LA 29B	6/18/2014	13:20	fgo
Prep. 7-Day Day Leachate	400/113	mL/g	LA 29B	6/18/2014	12:00	fgo
Total Solids for Dry Wt	93.5	%	SM 2540 G	6/10/2014	14:45	fgo
SPLP Extraction: Non-Volatile	Completed	Result	SW-846 1312	6/24/2014	10:27	fgo
SPLP ZHE Extraction	100% Solid	mL/g	SW-846 1312	6/12/2014	17:00	fgo
Metals Digestion SPLP 3010	50/100	mL/mL	SW-846 3010B	6/15/2014	8:50	fgo
SPLP Arsenic	< 0.0100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Barium	< 2.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Cadmium	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Chromium	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Lead	< 0.00500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Selenium	< 0.0500	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Silver	< 0.100	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
SPLP Zinc	< 5.00	mg/L	SW-846 6010B	6/17/2014	13:01	fgo
Metal Digestion SPLP 7470	50/50	mL/mL	SW-846 7470A	6/17/2014	11:10	fgo
SPLP Mercury	< 0.00200	mg/L	SW-846 7470A	6/18/2014	10:52	fgo
SPLP Benzene	< 0.00500	mg/L	SW-846 8260B	6/24/2014	4:02	fgo
1005 TPH Extraction	3/116	mL/mL	TNRCC TX 1005	6/18/2014	11:19	fgo
C12 - C28 TPH, 7-Day Leach	3.11	mg/L	TNRCC TX 1005	6/23/2014	20:40	fgo
C28 - C36 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	20:40	fgo
C6 - C12 TPH, 7-Day Leach	< 1.50	mg/L	TNRCC TX 1005	6/23/2014	20:40	fgo
C6 - C36 TPH, 7-Day Leach	3.11	mg/L	TNRCC TX 1005	6/23/2014	20:40	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 5.0	ppm		
	CCV1	Recovery	105	%	True Value	20 ppm
	CCV2	Recovery	93.1	%	True Value	10 ppm
	CCV3	Recovery	92.9	%	True Value	10 ppm
	Dup-A	A Reading	266	ppm		
	Dup-B	B Reading	258	ppm		
	Dup-RPD1	Relative% Difference	3.34	%		
	MS	Recovery	102	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 1.5	ppm		
	CCV1	Recovery	112	%	True Value	1000 ppm
	CCV2	Recovery	98	%	True Value	1000 ppm
	LCS	Recovery	99.4	%	Spike Amount	1666 ppm
	MS	Recovery	96.2	%	Spike Amount	1666 ppm
	MSD	Recovery	105	%	Spike Amount	1666 ppm
	MS-RPD	Relative% Difference	8.74	%		
C12-C28 TPH	Blank	Method Blank	< 1.5	ppm		
	CCV1	Recovery	128	%	True Value	1000 ppm
	CCV2	Recovery	93.2	%	True Value	1000 ppm
	LCS	Recovery	97.7	%	Spike Amount	1666 ppm
	MS	Recovery	83.5	%	Spike Amount	1666 ppm
	MSD	Recovery	94.3	%	Spike Amount	1666 ppm
	MS-RPD	Relative% Difference	12.1	%		
SPLP Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	83	%	True Value	0.02 ppm
	LCS	Recovery	74.2	%	Spike Amount	0.02 ppm
	LCSD	Recovery	73.9	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.405	%		
	MS	Recovery	72.5	%	Spike Amount	0.02 ppm
	MSD	Recovery	75.9	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	4.58	%		
pH at 25 C	Dup-A(pH)	Reading	11.87	SU		
	Dup-B(pH)	Reading	11.9	SU		
	pH 10 Buffer(1st)	Reading	10.01	SU	True Value	10.01 SU
	pH 7 Buffer(2nd)	Reading	7	SU	True Value	7 SU
SPLP Silver	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	102	%	True Value	2 ppm
	CCV2	Recovery	101	%	True Value	2 ppm
	ICV	Recovery	103	%	True Value	1 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	LCS	Recovery	86.4	%	Spike Amount	0.2 ppm
	LCSD	Recovery	81.9	%	Spike Amount	0.2 ppm
	LCS-RPD	Relative% Difference	5.35	%		
	MS	Recovery	87.6	%	Spike Amount	0.2 ppm
	MSD	Recovery	87.7	%	Spike Amount	0.2 ppm
	MS-RPD	Relative% Difference	0.0776	%		
SPLP Arsenic	Blank	Method Blank	< 0.010	ppm		
	CCV1	Recovery	102	%	True Value	10 ppm
	CCV2	Recovery	99.5	%	True Value	10 ppm
	ICV	Recovery	99.7	%	True Value	5 ppm
	LCS	Recovery	85.4	%	Spike Amount	1 ppm
	LCSD	Recovery	84.7	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	0.781	%		
	MS	Recovery	83.1	%	Spike Amount	1 ppm
	MSD	Recovery	81.9	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	1.56	%		
SPLP Barium	Blank	Method Blank	< 2.0	ppm		
	CCV1	Recovery	104	%	True Value	10 ppm
	CCV2	Recovery	103	%	True Value	10 ppm
	ICV	Recovery	96.8	%	True Value	5 ppm
	LCS	Recovery	88.2	%	Spike Amount	1 ppm
	LCSD	Recovery	83.9	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	4.97	%		
	MS	Recovery	84.1	%	Spike Amount	1 ppm
	MSD	Recovery	82.9	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	1.43	%		
SPLP Cadmium	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	102	%	True Value	5 ppm
	CCV2	Recovery	99.6	%	True Value	5 ppm
	ICV	Recovery	99.7	%	True Value	2.5 ppm
	LCS	Recovery	85.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	80.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	5.94	%		
	MS	Recovery	77.9	%	Spike Amount	0.5 ppm
	MSD	Recovery	77	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	1.24	%		
SPLP Chromium	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	102	%	True Value	10 ppm
	CCV2	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	100	%	True Value	5 ppm
	LCS	Recovery	88.2	%	Spike Amount	1 ppm
	LCSD	Recovery	87.2	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	1.07	%		
	MS	Recovery	80.8	%	Spike Amount	1 ppm
	MSD	Recovery	79.9	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	1.03	%		
SPLP Mercury	Blank	Method Blank	0.002	ppm		
	CCV1	Recovery	98.6	%	True Value	0.005 ppm
	CCV2	Recovery	98.5	%	True Value	0.005 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	LCS	Recovery	118	%	Spike Amount	0.01 ppm
	LCSD	Recovery	122	%	Spike Amount	0.01 ppm
	LCS-RPD	Relative% Difference	1.97	%		
	MS	Recovery	110	%	Spike Amount	0.01 ppm
	MSD	Recovery	105	%	Spike Amount	0.01 ppm
	MS-RPD	Relative% Difference	0.041	%		
SPLP Lead	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	102	%	True Value	10 ppm
	CCV2	Recovery	99.8	%	True Value	10 ppm
	ICV	Recovery	100	%	True Value	5 ppm
	LCS	Recovery	86.4	%	Spike Amount	1 ppm
	LCSD	Recovery	81.2	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	6.2	%		
	MS	Recovery	77.5	%	Spike Amount	1 ppm
	MSD	Recovery	76.7	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	0.987	%		
SPLP Selenium	Blank	Method Blank	< 0.050	ppm		
	CCV1	Recovery	102	%	True Value	10 ppm
	CCV2	Recovery	99.7	%	True Value	10 ppm
	ICV	Recovery	103	%	True Value	5 ppm
	LCS	Recovery	84.8	%	Spike Amount	1 ppm
	LCSD	Recovery	84.2	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	0.754	%		
	MS	Recovery	80.4	%	Spike Amount	1 ppm
	MSD	Recovery	81.4	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	1.26	%		
SPLP Zinc	Blank	Method Blank	< 0.25	ppm		
	CCV1	Recovery	101	%	True Value	10 ppm
	CCV2	Recovery	98.9	%	True Value	10 ppm
	ICV	Recovery	99.7	%	True Value	5 ppm
	LCS	Recovery	84.8	%	Spike Amount	1 ppm
	LCSD	Recovery	81.9	%	Spike Amount	1 ppm
	LCS-RPD	Relative% Difference	3.47	%		
	MS	Recovery	77.6	%	Spike Amount	1 ppm
	MSD	Recovery	76.3	%	Spike Amount	1 ppm
	MS-RPD	Relative% Difference	1.62	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	93.2	%		
	Dup-B%	B Reading	93.1	%		
	Dup-RPD1	Relative% Difference	0.0847	%		

Approved by

Greg Oliver, Lab Manager

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Chain of Custody

greg.oliver@gco-labs.com
(903)291-0137
(903)452-1929

Report to: J. B. Scott
Project name/Location: FC 2801-DKUT
Company: Scott Environmental Services
Billing Address (if different):
Address: P.O. Box 6215
City: Longview State: Texas Zip: 7 5 6 0 8
City: State: Zip:
Sampler Signature: Printed Name: PO Number:

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Analysis Request: Chlorides *	pH *	TPH *	SPLP Metals	SPLP Benzene
140610N001	Firmus-A	4/9/14		solid	2	* Material has	✓	✓	✓	✓	✓
140610N002	Firmus-B	4/9/14		solid	2	been fractured +	✓	✓	✓	✓	✓
140610N003	Firmus-C	4/9/14		solid	2	Sieved. Test	✓	✓	✓	✓	✓
						using LA29b					
						protocol for					
						7 Day leachate.					

Date:	Time:	Relinquished by: Printed:	Signature:	Affiliation:	Received by: Printed Name:	Signature:	Affiliation:
4/10/14	1235	Deta Washington		SESI	Linda Crass	Linda Crass	GCOlabs

Laboratory Approved by the Texas Railroad Commission

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Ute Tribal 13/14-9-4-3-2WH
FC2801-UT

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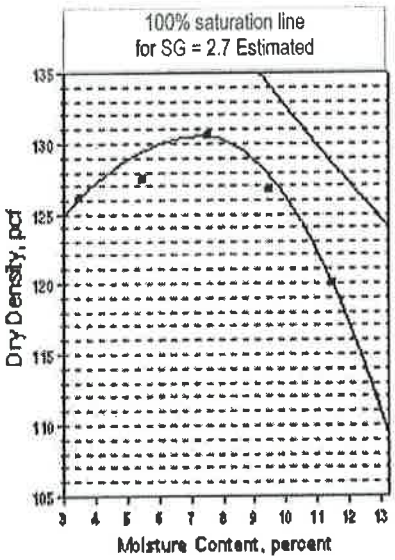
2000 East Randol Mill Rd. STE 6Arlington, TX 76011 (817) 962-0048

BY:_____

Acct ID: SCOTTENV Proj. No.: C6109-141 Date Sampled: 04/18/2014
Report Date: 04/24/2014 Sampled By: Client
Project: Scott Environmental General File 2014, Longview,TX By Order Of: Blake Scott
Location: Material origin: Onsite, Sample location: FC 2801-UT (A) Order Number:
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

REPORT: **Modified Proctor** LAB NO: S-12263
Material: POBC-A Test Method: See Below

TEST RESULTS Report No: 1-1700-000024
Page 1 of 1



% Moisture		Dry Density Lbs./Cu.Ft.	
3.5		126.1	
5.5		127.4	
7.4		130.5	
9.4		126.7	
11.5		120.0	
7.5	**Optimum**	**130.5**	**Maximum**

Color: Grayish Brown
Description: POBC-A

Standard Method: A
Desc of Rammer: Mechanical
Preparation Method: Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable): ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

Respectfully Submitted,
ETTL Engineers & Consultants, Inc.

Hermann Walka, P.E.

ETTL Engineers & Consultants Inc.

GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2801-UT (A)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

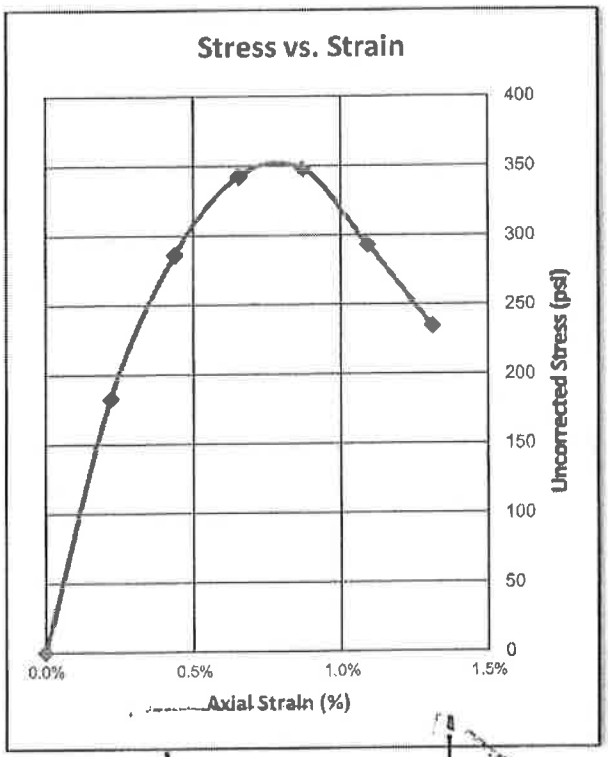
Sample Information

Location/Boring No: **SESI Job # FC 2801-UT (A)** Sample Date: 4/9/2014
Sample No.: **12263** Depth: ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Grayish Brown POBC-A
Sampled By: SESI
Technician: Todd Sliger Test Date: 4/29/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	7.5%	
Maximum Density:	130.5	pcf
Molded Moisture Content:	7.4%	
Molded Density:	**130.5**	**pcf**
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.019	In
Height After Curing:	4.593	In
H/D Ratio After Curing:	1.143	
Area After Curing:	12.69	in^2
H/D Correction Factor:	0.904	
Seating Load:	15.0	lbs.
Compression Load:	4450	lbs.
Total Load:	4465	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	352.0	psi
Corrected Maximum Stress:	**314.5**	psi
Peak Strain:	**0.9%**	
Failure Type:	Cylindrical	



Respectfully Submitted,

Hermann Walka, P.E.

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Arlington Branch:	2000 E. Randol Mill Rd. Suite 613 Arlington, Texas 76011	Phone 817-962-0048	

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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

HYDRAULIC CONDUCTIVITY DETERMINATION
FLEXIBLE WALL PERMEAMETER - CONSTANT VOLUME
(Mercury Permometer Test)

Project : SESI Job # FC 2801-UT (A) Scott Environmental Services, Longview, Texas
Date: 5/20/2014 Panel Number : 1 ASTM D 5084
Project No. : C 6109-141 Permometer Data

Boring No.:	FC 2801-UT (A)	ap =	0.031416	cm2	Set Mercury to Pipet Rp at beginning	Equilibrium	1.7	cm3
Sample:	12263	aa =	0.767120	cm2		Pipet Rp	6.7	cm3
Depth (ft):		M1 =	0.030180	C = 0.000429354		Annulus Ra	1.5	cm3
Other Location:	On Site	M2 =	1.040953	T = 0.201511953				
Material Description :	Grayish Brown POBC-A							

SAMPLE DATA

					Before Test		After Test	
Wet Wt. sample + ring or tare :			619.10	g	Tare No.:	I 2	Tare No.:	H5
Tare or ring Wt. :			0.0	g	Wet Wt.+tare:	577.20	Wet Wt.+tare	792.80
Wet Wt: of Sample :			619.10	g	Dry Wt.+tare:	546.10	Dry Wt.+tare:	728.90
Diameter :	2.78	in	7.07	cm2	Tare Wt:	152.50	Tare Wt:	163.30
Length :	2.77	in	7.03	cm	Dry Wt.:	393.6	Dry Wt.:	565.6
Area:	6.08	in^2	39.24	cm2	Water Wt.:	31.1	Water Wt.:	63.9
Volume :	16.84	in^3	275.96	cm3	% moist.:	7.9	% moist.:	11.3
Unit Wt.(wet):	139.99	pcf	2.24	g/cm^3				
Unit Wt.(dry):	129.74	pcf	2.08	g/cm^3				

Assumed Specific Gravity: 2.65 Max Dry Density(pcf) = 130.5 OMC = 7.5
Void ratio (e) = 0.28 % of max Density = 99.4 +/- OMC = 0.40
Measwured % saturation: 98.00
Porosity (n)= 0.22

TEST READINGS

Z1(Mercury Height Difference @ t1): 5.2 cm Hydraulic Gradient = 9.25

Date	elapsed t (seconds)	Z (pipet @ t)	ΔZπ (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)	Reset = *
5/9/2014	960	6.1	0.562485	25.1	0.887	4.77E-08	1.35E-04	
5/9/2014	1200	6	0.662485	25.1	0.887	4.55E-08	1.29E-04	
5/9/2014	1440	5.9	0.762485	25.1	0.887	4.41E-08	1.25E-04	
5/9/2014	1680	5.8	0.862485	25.1	0.887	4.33E-08	1.23E-04	

SUMMARY

ka = 4.52E-08 cm/sec Acceptance criteria = 25 %

		Vm		
ki				
k1 =	4.77E-08 cm/sec	5.7	%	Vm = | ka-ki | x 100 / ka
k2 =	4.55E-08 cm/sec	0.7	%	
k3 =	4.41E-08 cm/sec	2.3	%	
k4 =	4.33E-08 cm/sec	4.1	%	

Hydraulic conductivity	k =	4.52E-08	cm/sec	1.28E-04	fl/day
Void Ratio	e =	0.28			
Porosity	n =	0.22			
Bulk Density	γ =	2.24	g/cm3	140.0	pcf
Water Content	W =	0.16	cm3/cm3	(at 20 deg C)	
Intrinsic Permeability	kint =	4.63E-13	cm2	(at 20 deg C)	

Respectfully submitted

Hermann Walka, P.E.

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Texarkana Branch: 210 Beech Street Texarkana, Arkansas 71854 Phone: 870-772-0013 Fax: 870-216-2413
Arlington Branch: 2000 E. Randol Mill Rd. Suite 613 Arlington, Texas 76011 Phone:817-962-0048
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Ute Tribal 13/14-9-4-3-2WH
FC2801-UT

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BY:_____

Acct ID: SCOTTENV Proj. No.: C6109-141
Report Date: 04/24/2014
Project: Scott Environmental General File 2014, Longview,TX
Location: Material origin: Onsite, Sample location: FC 2801-UT (B)
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

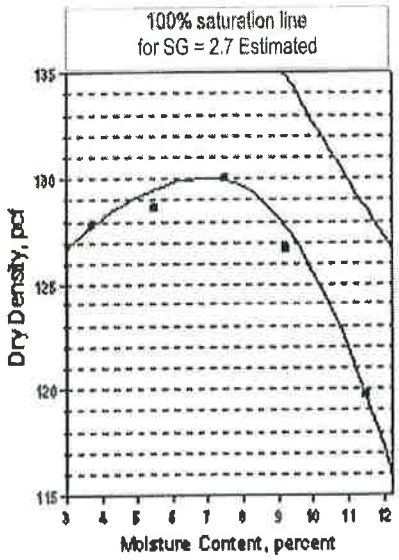
Date Sampled: 04/18/2014
Sampled By: Client
By Order Of: Blake Scott
Order Number:

REPORT: **Modified Proctor**
Material: POBC-B

LAB NO: S-12264
Test Method: See Below

TEST RESULTS

Report No: 1-1700-000025
Page 1 of 1



% Moisture		Dry Density Lbs./Cu.Ft.	
3.7		127.7	
5.6		128.6	
7.5		130.0	
9.3		126.6	
11.4		120.2	
7.0	**Optimum**	**130.0**	**Maximum**

Color: Grayish Brown
Description: POBC-B-

Standard Method: A
Desc of Rammer: Mechanical
Preparation Method: Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable): ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

Respectfully Submitted,
ETTL Engineers & Consultants, Inc.

Hermann Walka, P.E.

ETTL Engineers & Consultants Inc.

GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2801-UT (B)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

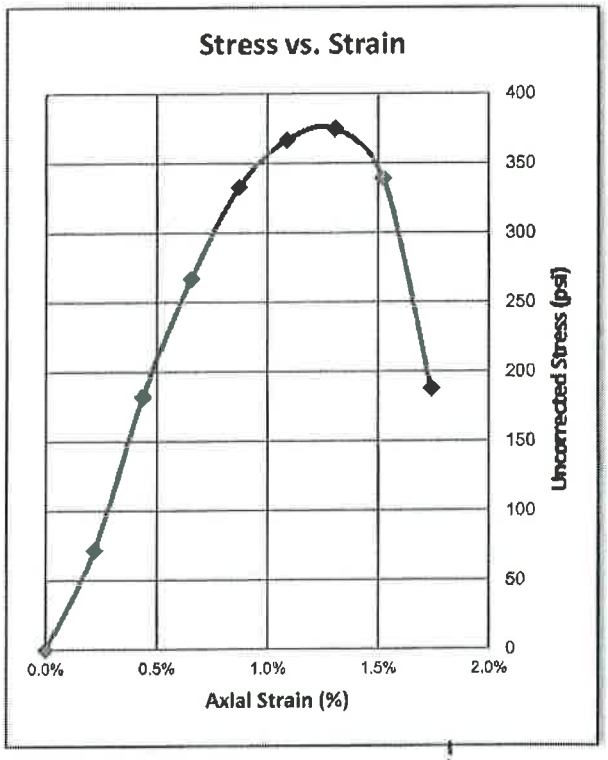
Sample Information

Location/Boring No: **SESI Job # FC 2801-UT (B)** Sample Date: 4/9/2014
Sample No.: **12264** Depth: ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Grayish Brown POBC-B
Sampled By: SESI
Technician: Todd Sliger Test Date: 4/29/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	7.0%	
Maximum Density:	130	pcf
Molded Moisture Content:	7.5%	
Molded Density:	**130.0**	**pcf**
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.03	in
Height After Curing:	4.604	in
H/D Ratio After Curing:	1.142	
Area After Curing:	12.76	in^2
H/D Correction Factor:	0.904	
Seating Load:	15.0	lbs.
Compression Load:	4842	lbs.
Total Load:	4857	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	380.8	psi
Corrected Maximum Stress:	**338.7**	psi
Peak Strain:	**1.3%**	
Failure Type:	Cylindrical	



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GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

HYDRAULIC CONDUCTIVITY DETERMINATION
FLEXIBLE WALL PERMEAMETER - CONSTANT VOLUME
(Mercury Permometer Test)

Project : SESI Job # FC 2801-UT (B) Scott Environmental Services, Longview, Texas
Date: 5/27/2014 Panel Number : 2 ASTM D 5084
Project No. : C 6109-141 Permometer Data

Boring No.:	FC 2801-UT (B)	ap =	0.031416 cm2	Set Mercury to Pipet Rp at beginning	Equllibrium	1.8	cm3
Sample:	12264	aa =	0.767120 cm2		Pipet Rp	6.7	cm3
Depth (ft):		M1 =	0.030180	C = 0.000436536	Annulus Ra	1.6	cm3
Other Location:	On Site	M2 =	1.040953	T = 0.205799442			
Material Description :	Grayish Brown POBC-B						

SAMPLE DATA

					Before Test		After Test	
Wet Wt. sample + ring or tare :			617.80	g	Tare No.:	C2	Tare No.:	C1
Tare or ring Wt. :			0.0	g	Wet Wt.+tare:	571.60	Wet Wt.+tare	765.30
Wet Wt. of Sample :			617.80	g	Dry Wt.+tare:	541.60	Dry Wt.+tare:	703.40
Diameter :	2.77	in	7.04	cm2	Tare Wt:	143.20	Tare Wt:	133.50
Length :	2.79	In	7.09	cm	Dry Wt.:	398.4	Dry Wt.:	569.9
Area:	6.03	in^2	38.92	cm2	Water Wt.:	30	Water Wt.:	61.9
Volume :	16.84	In^3	276.01	cm3	% moist.:	7.5	% moist.:	10.9
Unit Wt.(wet):	139.67	pcf	2.24	g/cm^3				
Unit Wt.(dry):	129.89	pcf	2.08	g/cm^3				

Assumed Specific Gravity: 2.65 Max Dry Density(pcf) = 130 OMC = 7
Void ratio (e) = 0.27 % of max Density = 99.9 +/- OMC = 0.53
Measured % saturation: 98.00
Porosity (n)= 0.21

TEST READINGS

Z1(Mercury Height Difference @ t1): 5.1 cm Hydraulic Gradient = 8.99

Date	elapsed t (seconds)	Z (pipet @ t)	ΔZπ (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)	Reset = *
5/9/2014	1680	6.1	0.5591	25.1	0.887	2.82E-08	7.99E-05	
5/9/2014	2160	6	0.6591	25.1	0.887	2.61E-08	7.41E-05	
5/9/2014	2640	5.9	0.7591	25.1	0.887	2.49E-08	7.06E-05	
5/9/2014	3180	5.8	0.8591	25.1	0.887	2.37E-08	6.72E-05	

SUMMARY

ka =	2.57E-08	cm/sec		Acceptance criteria =	25 %
ki			Vm		
k1 =	2.82E-08	cm/sec	9.5	%	Vm = | ka-ki | x 100 / ka
k2 =	2.61E-08	cm/sec	1.6	%	
k3 =	2.49E-08	cm/sec	3.2	%	
k4 =	2.37E-08	cm/sec	7.9	%	

Hydraulic conductivity	k =	2.57E-08	cm/sec	7.29E-05	fl/day
Void Ratio	e =	0.27			
Porosity	n =	0.21			
Bulk Density	γ =	2.24	g/cm3	139.7	pcf
Water Content	W =	0.16	cm3/cm3	(at 20 deg C)	
Intrinsic Permeability	kint =	2.64E-13	cm2	(at 20 deg C)	

Respectfully Submitted

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Ute Tribal 13/14-9-4-3-2WH
FC2801-UT

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Texarkana, AR 71854 (870) 772-0013

BY:

Acct ID: SCOTTENV
Proj. No.: C6109-141
Report Date: 04/24/2014
Project: Scott Environmental General File 2014, Longview,TX
Location: Material origin: Onsite, Sample location: FC 2801-UT (C)
Client: Scott Environmental Services, Longview, TX
Contractor: Not Given

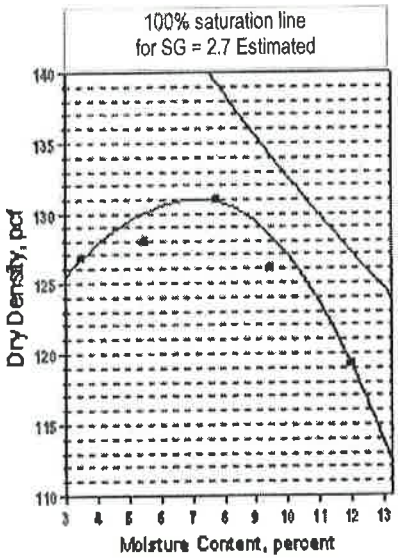
Date Sampled: 04/18/2014
Sampled By: Client
By Order Of: Blake Scott
Order Number:

REPORT: **Modified Proctor**
Material: POBC-C

LAB NO: S-12265
Test Method: See Below

TEST RESULTS

Report No: 1-1700-000026
Page 1 of 1



% Moisture		Dry Density Lbs./Cu.Ft.	
3.6		127.0	
5.5		128.0	
7.7		131.0	
9.5		126.1	
11.9		119.8	
7.5	**Optimum**	**131.0**	**Maximum**

Color: Grayish Brown
Description: POBC-C

Standard Method: A
Desc of Rammer: Mechanical
Preparation Method: Moist
Remarks: These tests were performed solely at the request of the Client for his own use. No warranties are expressed or implied regarding the suitability of the site for construction or whether or not the reported data represents all conditions of the site.
Test Method (As Applicable): ASTM D1557, Method-A

Charge: Scott Environmental Services, Longview, TX Attn: Blake Scott
Orig: Scott Environmental Services, Longview, TX Attn: Blake Scott

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Compressive Strength of Molded Soil-Cement Cylinders, ASTM D 1633 Method A

Unconfined Compressive Strength of Compacted Soil-Lime Mixtures, ASTM D 5102 Procedure B

Project Information

Project: SESI Job # FC 2801-UT (C)
Client/Arch./Engr.: Scott Enviromental Services Inc: Longview, Texas
Contractor: Not Given
Job No.: C 6109-141

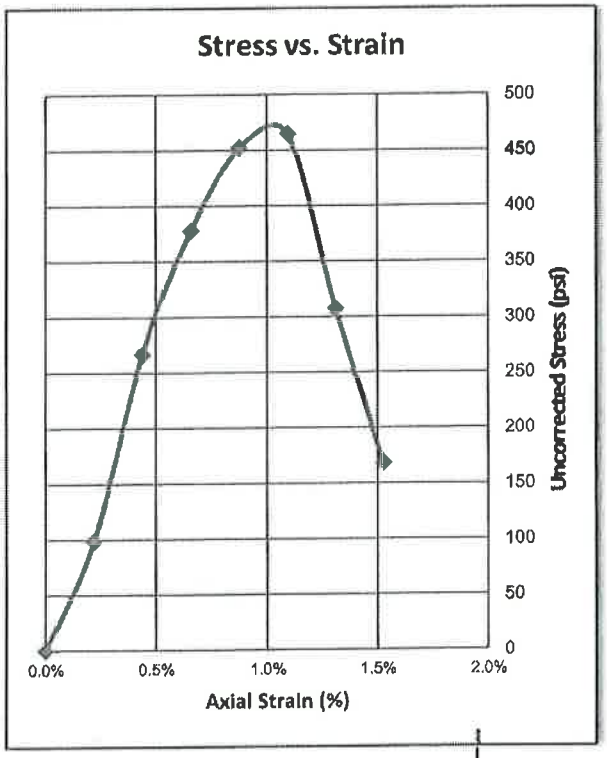
Sample Information

Location/Boring No: **SESI Job # FC 2801-UT (C)** Sample Date: 4/9/2014
Sample No.: **12265** Depth: ft.
Material Origin: On Site
Sampling Info. provided By: Client
Material Description: Grayish Brown POBC-C
Sampled By: SESI
Technician: Todd Sliger Test Date: 4/29/2014

Test Data

Curing Method:
Sample moist cured at temperature of ~73 deg F for 7 days prior to conducting test.

Molding Method:	**ASTM D 1557**	
Optimum Moisture Content:	7.5%	
Maximum Density:	131	pcf
Molded Moisture Content:	7.7%	
Molded Density:	131.0	pcf
Diameter Before Curing:	3.994	in
Height Before Curing:	4.591	in
H/D Ratio Before Curing:	1.149	
Diameter After Curing:	4.024	in
Height After Curing:	4.592	in
H/D Ratio After Curing:	1.141	
Area After Curing:	12.72	in^2
H/D Correction Factor:	0.904	
Seating Load:	15.0	lbs.
Compression Load:	5971	lbs.
Total Load:	5986	lbs.
Confining Pressure:	0.0	psi
Maximum Stress:	470.7	psi
Corrected Maximum Stress:	419.7	psi
Peak Strain:	**1.1%**	
Failure Type:	Cylindrical	



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HYDRAULIC CONDUCTIVITY DETERMINATION
FLEXIBLE WALL PERMEAMETER - CONSTANT VOLUME
(Mercury Permometer Test)

Project : SESI Job # FC 2801-UT (C) Scott Environmental Services, Longview, Texas
Date: 5/27/2014 Panel Number : 3 ASTM D 5084
Project No. : C 6109-141 Permometer Data

Boring No.:	FC 2801-UT (C)	ap =	0.031416 cm2	Set Mercury to Pipet Rp at beginning	Equilibrium	1.7	cm3
Sample:	12265	aa =	0.767120 cm2		Pipet Rp	6.7	cm3
Depth (ft):		M1 =	0.030180	C = 0.000438185	Annulus Ra	1.5	cm3
Other Location:	On Site	M2 =	1.040953	T = 0.201511953			

Material Description : Grayish Brown POBC-C

SAMPLE DATA

					Before Test		After Test	
Wet Wt. sample + ring or tare :			627.40	g	Tare No.:	3K	Tare No.:	A30
Tare or ring Wt. :			0.0	g	Wet Wt +tare:	574.60	Wet Wt.+tare	781.00
Wet Wt: of Sample :			627.40	g	Dry Wt.+tare:	544.50	Dry Wt.+tare:	721.00
Diameter :	2.77	in	7.05	cm2	Tare Wt:	153.50	Tare Wt:	142.70
Length :	2.81	in	7.13	cm	Dry Wt.:	391	Dry Wt.:	578.3
Area:	6.04	in^2	38.98	cm2	Water Wt.:	30.1	Water Wt.:	60
Volume :	16.97	in^3	278.01	cm3	% moist.:	7.7	% moist.:	10.4
Unit Wt.(wet):	140.82	pcf	2.26	g/cm^3				
Unit Wt.(dry):	130.76	pcf	2.10	g/cm^3				

Assumed Specific Gravity: 2.65 Max Dry Density(pcf) = 131 OMC = 7.5
Void ratio (e) = 0.27 % of max Density = 99.8 +/- OMC = 0.20
Measured % saturation: 99.00
Porosity (n)= 0.21

TEST READINGS

Z1(Mercury Height Difference @ t1): 5.2 cm Hydraulic Gradient = 9.13

Date	elapsed t (seconds)	Z (pipet @ t)	ΔZπ (cm)	temp (deg C)	α (temp corr)	k (cm/sec)	k (ft./day)	Reset = *
5/9/2014	1680	6.1	0.562485	25	0.889	2.79E-08	7.91E-05	
5/9/2014	2280	6	0.662485	25	0.889	2.45E-08	6.94E-05	
5/9/2014	2940	5.9	0.762485	25	0.889	2.21E-08	6.27E-05	
5/9/2014	3600	5.8	0.862485	25	0.889	2.07E-08	5.86E-05	

SUMMARY

ka = 2.38E-08 cm/sec
ki
Vm
k1 = 2.79E-08 cm/sec 17.3 %
k2 = 2.45E-08 cm/sec 2.9 %
k3 = 2.21E-08 cm/sec 7.1 %
k4 = 2.07E-08 cm/sec 13.1 %

Acceptance criteria = 25 %

$Vm = \frac{|ka-ki|}{ka} \times 100$

Hydraulic conductivity	k =	2.38E-08	cm/sec	6.74E-05 ft/day
Void Ratio	e =	0.27		
Porosity	n =	0.21		
Bulk Density	γ =	2.26	g/cm3	140.8 pcf
Water Content	W =	0.16	cm3/cm3	(at 20 deg C)
Intrinsic Permeability	kint =	2.44E-13	cm2	(at 20 deg C)

Respectfully submitted

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Ute Tribal 4-1-12-3-4WH
S2696-UT

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Longview, Texas 75604
903 / 291-0137
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Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2696-UT**
Cust. Sample: **POBC-A**
Lab ID: 131003P001

Collected; 9/17/2013
Received: 10/3/2013
Report Date: 10/18/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/3/2013	17:00	fgo
EC at Saturation	44.8	mho/cm	LA 29B	10/14/2013	14:17	fgo
Electrical Conductance at 25 C	14.5	mho/cm	LA 29B	10/9/2013	9:05	fgo
Hydrophobicity	Positive	Result	LA 29B	10/4/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.1	SU	LA 29B	10/8/2013	11:00	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/9/2013	9:51	fgo
Saturation Water Percentage (dried s	32	%	LA 29B	10/7/2013	16:10	fgo
Sodium Adsorption Ratio	3.5	meq/meq	LA 29B	10/10/2013	10:54	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/7/2013	14:43	fgo
Special Total Ba Metals Prep	500/0.1077	mL/g	LA 29B	10/9/2013	9:51	fgo
Extraction (3-Day SESI)	50/5.59	mL/g	LA29B*Modified	10/4/2013	17:00	fgo
Chloride (LA29 3D EXIC)	3,260	mg/kg	LA29B-Mod SESI	10/8/2013	14:07	fgo
Free Alkalinity (Phenyl	14,900	mg/kg	SM 2320B	10/9/2013	11:30	fgo
Total Solids for Dry Wt	91.3	%	SM 2540 G	10/4/2013	8:15	fgo
Solid/Organic Metals Digestion	100/1.40	mL/g	SW-846 3050B	10/8/2013	9:00	fgo
Arsenic	6.86	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Calcium (Water Soluble)	140	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
Chromium	16.8	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Lead	3.91	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Sodium (Water Soluble)	29.4	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
True Total Barium	194,000	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Zinc	31.5	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Mercury	0.217	mg/kg	SW-846 7471A	10/10/2013	14:31	fgo
Solid Metal Digestion Hg	100/0.55	mL/g	SW-846 7471A	10/7/2013	10:30	fgo
Benzene	< 0.103	mg/kg	SW-846 8260B	10/9/2013	18:46	fgo
VOC 5035 Extraction	10/10.6	mg/kg	SW-846 8260B	10/3/2013	16:40	fgo
Sulfate	7,510	mg/kg	Tex-620-J	10/4/2013	12:42	fgo
Sulfate Extraction/Leaching	50/5.37	mL/g	Tex-620-J	10/2/2013	12:00	fgo
1005 TPH Extraction Solid	10/10.9	mL/g	TNRCC TX 1005	10/9/2013	15:20	fgo
C12 to C28 TPH	96,600	mg/kg	TNRCC TX 1005	10/10/2013	11:44	fgo
C28 to C36 TPH	< 500	mg/kg	TNRCC TX 1005	10/10/2013	11:44	fgo
C6 to C12 TPH	5,310	mg/kg	TNRCC TX 1005	10/10/2013	11:44	fgo
C6 to C36 TPH	102,000	mg/kg	TNRCC TX 1005	10/10/2013	11:44	fgo

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Longview, Texas 75604
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Project: **S2696-UT**
Cust. Sample: **WOBC-A**
Lab ID: 131003P002

Collected; 9/17/2013
Received: 10/3/2013
Report Date: 10/18/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/3/2013	17:00	fgo
EC at Saturation	62.3	mho/cm	LA 29B	10/14/2013	14:17	fgo
Electrical Conductance at 25 C	17.5	mho/cm	LA 29B	10/9/2013	9:05	fgo
Hydrophobicity	Positive	Result	LA 29B	10/4/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.8	SU	LA 29B	10/8/2013	11:00	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/9/2013	9:51	fgo
Saturation Water Percentage (dried s	28	%	LA 29B	10/7/2013	16:10	fgo
Sodium Adsorption Ratio	2.7	meq/meq	LA 29B	10/10/2013	10:54	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/7/2013	14:43	fgo
Special Total Ba Metals Prep	500/0.1319	mL/g	LA 29B	10/9/2013	9:51	fgo
Extraction (3-Day SESI)	50/6.89	mL/g	LA29B*Modified	10/4/2013	17:00	fgo
Chloride (LA29 3D EXIC)	2,980	mg/kg	LA29B-Mod SESI	10/8/2013	14:48	fgo
Free Alkalinity (Phenyl	1,990	mg/kg	SM 2320B	10/9/2013	11:30	fgo
Total Solids for Dry Wt	89.0	%	SM 2540 G	10/4/2013	8:15	fgo
Solid/Organic Metals Digestion	100/1.36	mL/g	SW-846 3050B	10/8/2013	9:00	fgo
Arsenic	4.81	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Calcium (Water Soluble)	174	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
Chromium	7.05	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Lead	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Sodium (Water Soluble)	24.8	meq/L	SW-846 6010B	10/10/2013	10:54	fgo
True Total Barium	293,000	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Zinc	22.2	mg/kg	SW-846 6010B	10/10/2013	10:54	fgo
Mercury	0.107	mg/kg	SW-846 7471A	10/10/2013	14:31	fgo
Solid Metal Digestion Hg	100/0.54	mL/g	SW-846 7471A	10/7/2013	10:30	fgo
Benzene	< 0.231	mg/kg	SW-846 8260B	10/9/2013	19:12	fgo
VOC 5035 Extraction	10/10.4	mg/kg	SW-846 8260B	10/3/2013	16:40	fgo
Sulfate	402	mg/kg	Tex-620-J	10/4/2013	12:55	fgo
Sulfate Extraction/Leaching	50/5.73	mL/g	Tex-620-J	10/2/2013	12:00	fgo
1005 TPH Extraction Solid	10/11.0	mL/g	TNRCC TX 1005	10/9/2013	15:20	fgo
C12 to C28 TPH	135,000	mg/kg	TNRCC TX 1005	10/10/2013	12:42	fgo
C28 to C36 TPH	< 500	mg/kg	TNRCC TX 1005	10/10/2013	12:42	fgo
C6 to C12 TPH	8,950	mg/kg	TNRCC TX 1005	10/10/2013	12:42	fgo
C6 to C36 TPH	144,000	mg/kg	TNRCC TX 1005	10/10/2013	12:42	fgo

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Longview, Texas 75604
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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	107	%	True Value	20 ppm
	CCV2	Recovery	99.8	%	True Value	10 ppm
	CCV3	Recovery	101	%	True Value	10 ppm
	Dup-A	A Reading	3,260	ppm		
	Dup-B	B Reading	3,670	ppm		
	Dup-RPD1	Relative% Difference	11.9	%		
	LCS	Recovery	90.4	%	Spike Amount	9000 ppm
	LCSD	Recovery	89.9	%	Spike Amount	9000 ppm
	LCS-RPD	Relative% Difference	0.565	%		
	MS	Recovery	100	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	92.3	%	True Value	1000 ppm
	CCV2	Recovery	105	%	True Value	1000 ppm
	Dup-A	A Reading	5,310	ppm		
	Dup-B	B Reading	7,510	ppm		
	Dup-RPD1	Relative% Difference	34.3 H	%		
	LCS	Recovery	86.4	%	Spike Amount	500 ppm
	LCSD	Recovery	100	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	14.9	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	96.6	%	True Value	1000 ppm
	CCV2	Recovery	109	%	True Value	1000 ppm
	Dup-A	A Reading	96,600	ppm		
	Dup-B	B Reading	95,600	ppm		
	Dup-RPD1	Relative% Difference	0.953	%		
	LCS	Recovery	105	%	Spike Amount	500 ppm
	LCSD	Recovery	112	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	6.75	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	106	%	True Value	0.02 ppm
	LCS	Recovery	112	%	Spike Amount	0.02 ppm
	LCSD	Recovery	116	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	3.38	%		
	MS	Recovery	105	%	Spike Amount	0.02 ppm
	MSD	Recovery	108	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	3.28	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	9,960	ppm		
	Dup-B	B Reading	9,950	ppm		
	Dup-RPD1	Relative% Difference	0.11	%		
Electrical Conductivity	Dup-A(EC)	Reading	15.12	mho/c		
	Dup-B(EC)	Reading	15.01	mho/c		
	Dup-RPD1	Relative% Difference	0.73	%		
	Standard1(EC)	Reading	14.77	mho/c	True Value	14.13 mho/c
	Standard2(EC)	Reading	14.78	mho/c	True Value	14.13 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	38.4	%		
	Dup-B%	B Reading	40	%		
	Dup-RPD1	Relative% Difference	4.14	%		
pH at 25C	Dup-A(pH)	Reading	10.66	SU		
	Dup-B(pH)	Reading	10.56	SU		
	Dup-RPD1	Relative% Difference	0.943	%		
	pH 10 Buffer(1st)	Reading	10	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	9.98	SU	True Value	10.01 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	105	%	True Value	20 ppm
	CCV2	Recovery	104	%	True Value	20 ppm
	Dup-A	A Reading	3,690	ppm		
	Dup-B	B Reading	3,530	ppm		
	Dup-RPD1	Relative% Difference	4.54	%		
	LCS	Recovery	97.8	%	Spike Amount	5000 ppm
	LCSD	Recovery	91.1	%	Spike Amount	5000 ppm
	LCS-RPD	Relative% Difference	7.11	%		
	MS	Recovery	111	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.0050	ppm		
	CCV2	Recovery	101	%	True Value	10 ppm
	CCV3	Recovery	99.9	%	True Value	10 ppm
	Dup-A	A Reading	122,000	ppm		
	Dup-B	B Reading	122,000	ppm		
	Dup-RPD1	Relative% Difference	0.331	%		
	ICV	Recovery	96.4	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	105	%	True Value	0.005 ppm
	CCV2	Recovery	101	%	True Value	0.005 ppm
	LCS	Recovery	106	%	Spike Amount	0.005 ppm
	LCSD	Recovery	100	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	5.48	%		
	MS	Recovery	103	%	Spike Amount	0.005 ppm
	MSD	Recovery	103	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	0.162	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	99.7	%	True Value	10 ppm
	CCV2	Recovery	99.4	%	True Value	10 ppm
	ICV	Recovery	98.9	%	True Value	5 ppm
	LCS	Recovery	98.7	%	Spike Amount	0.1 ppm
	LCSD	Recovery	93.4	%	Spike Amount	0.1 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	LCS-RPD	Relative% Difference	5.53	%		
	MS	Recovery	74.1	%	Spike Amount	0.5 ppm
	MSD	Recovery	78.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	5.86	%		
Ca, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	101	%	True Value	100 ppm
	CCV2	Recovery	99.1	%	True Value	100 ppm
	Dup-A	A Reading	2,070	ppm		
	Dup-B	B Reading	2,050	ppm		
	Dup-RPD1	Relative% Difference	0.957	%		
	ICV	Recovery	99.1	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	99.4	%	True Value	5 ppm
	CCV2	Recovery	99	%	True Value	5 ppm
	ICV	Recovery	98.4	%	True Value	2.5 ppm
	LCS	Recovery	122	%	Spike Amount	0.04 ppm
	LCSD	Recovery	117	%	Spike Amount	0.04 ppm
	LCS-RPD	Relative% Difference	3.73	%		
	MS	Recovery	79.1	%	Spike Amount	0.25 ppm
	MSD	Recovery	79.9	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	1.05	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	99.2	%	True Value	10 ppm
	CCV2	Recovery	98.2	%	True Value	10 ppm
	ICV	Recovery	98.4	%	True Value	5 ppm
	LCS	Recovery	95.6	%	Spike Amount	0.1 ppm
	LCSD	Recovery	93.4	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	2.4	%		
	MS	Recovery	77.2	%	Spike Amount	0.5 ppm
	MSD	Recovery	77.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	0.613	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	99.7	%	True Value	10 ppm
	CCV2	Recovery	98.9	%	True Value	10 ppm
	ICV	Recovery	98.5	%	True Value	5 ppm
	LCS	Recovery	95.1	%	Spike Amount	0.1 ppm
	LCSD	Recovery	92.1	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	3.16	%		
	MS	Recovery	63.9	%	Spike Amount	0.5 ppm
	MSD	Recovery	67.1	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	4.92	%		
Mg, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	101	%	True Value	100 ppm
	CCV2	Recovery	100	%	True Value	100 ppm
	Dup-A	A Reading	< 0.500	ppm		
	Dup-B	B Reading	< 0.500	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	ICV	Recovery	103	%	True Value	50 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Na, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	102	%	True Value	100 ppm
	CCV2	Recovery	101	%	True Value	100 ppm
	Dup-A	A Reading	1,230	ppm		
	Dup-B	B Reading	1,250	ppm		
	Dup-RPD1	Relative% Difference	1.06	%		
	ICV	Recovery	101	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	101	%	True Value	10 ppm
	CCV2	Recovery	100	%	True Value	10 ppm
	ICV	Recovery	102	%	True Value	5 ppm
	LCS	Recovery	114	%	Spike Amount	0.1 ppm
	LCSD	Recovery	97.2	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	15.7	%		
	MS	Recovery	80.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	82.4	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.13	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	98.9	%	True Value	2 ppm
	CCV2	Recovery	97.9	%	True Value	2 ppm
	ICV	Recovery	103	%	True Value	1 ppm
	LCS	Recovery	75.1	%	Spike Amount	0.02 ppm
	MS	Recovery	93.9	%	Spike Amount	0.1 ppm
	MSD	Recovery	94.1	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	0.171	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	99.3	%	True Value	10 ppm
	CCV2	Recovery	99.3	%	True Value	10 ppm
	ICV	Recovery	98.5	%	True Value	5 ppm
	LCS	Recovery	96.9	%	Spike Amount	0.1 ppm
	LCSD	Recovery	94.6	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	2.4	%		
	MS	Recovery	78.3	%	Spike Amount	0.5 ppm
	MSD	Recovery	77	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	1.69	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	91.3	%		
	Dup-B%	B Reading	91.1	%		
	Dup-RPD1	Relative% Difference	0.142	%		

Approved by

Greg Oliver, Lab Manager

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Chain of Custody

greg.oliver@gco-labs.com
(903)291-0137
(903)452-1929

Report to: J. B. Scott	Project name/Location: S2696-UT
Company: Scott Environmental Services	Billing Address (if different):
Address: P.O. Box 6215	
City: Longview State: Texas Zip: 7 5 6 0 8	City: State: Zip:
Sampler Signature: Printed Name:	PO Number:

Analysis Request

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Routine Salinity #1	Benzene	TCEQ 1005	LA 29B Metals
131003P001 ~~1309~~ F60 10/3	POBC-A	9/17/13	—	Solid	4		✓	✓	✓	✓
131003P002	WOBC-A	9/17/13	—	Wet Sludge	4		✓	✓	✓	✓

Date:	Time:	Relinquished by: Printed	Signature	Affiliation	Received by: Printed Name	Signature	Affiliation
10/3/13	14:25	Detric Washington	[signature]	SESI	Greg Oliver	[signature]	GCO Labs

Laboratory Approved by the Texas Railroad Commission

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Ute Tribal 16-12-1-3-4WH
S2657-UT

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Customer: J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2657-UT** Collected; 8/22/2013
Cust. Sample: **WOBC-A** Received: 9/3/2013
Lab ID: 130903R006 Report Date: 9/16/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	9/3/2013	17:27	fgo
EC at Saturation	76.4	mho/cm	LA 29B	9/12/2013	14:30	fgo
Electrical Conductance at 25 C	21.4	mho/cm	LA 29B	9/12/2013	14:30	fgo
Hydrophobicity	Positive	Result	LA 29B	9/4/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	11.1	SU	LA 29B	9/10/2013	9:20	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	9/12/2013	15:44	fgo
Saturation Water Percentage (dried s	28	%	LA 29B	9/12/2013	14:00	fgo
Sodium Adsorption Ratio	1.6	meq/meq	LA 29B	9/9/2013	15:34	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	9/9/2013	15:34	fgo
Special Total Ba Metals Prep	500/0.1474	mL/g	LA 29B	9/12/2013	15:44	fgo
Extraction (3-Day SESI)	50/5.31	mL/g	LA29B*Modified	9/4/2013	10:33	fgo
Chloride (LA29 3D EXIC)	1,800	mg/kg	LA29B-Mod SESI	9/9/2013	10:29	fgo
Free Alkalinity (Phenyl	6,150	mg/kg	SM 2320B	9/14/2013	9:36	fgo
Total Solids for Dry Wt	88.2	%	SM 2540 G	9/3/2013	17:15	fgo
Solid/Organic Metals Digestion	100/1.34	mL/g	SW-846 3050B	9/5/2013	13:00	fgo
Arsenic	3.44	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Calcium (Water Soluble)	208	meq/L	SW-846 6010B	9/13/2013	13:59	fgo
Chromium	7.01	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Lead	< 2.50	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	9/13/2013	13:59	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Sodium (Water Soluble)	16.4	meq/L	SW-846 6010B	9/13/2013	13:59	fgo
True Total Barium	406,000	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Zinc	21.6	mg/kg	SW-846 6010B	9/13/2013	13:59	fgo
Mercury	0.0848	mg/kg	SW-846 7471A	9/13/2013	11:46	fgo
Solid Metal Digestion Hg	100/0.53	mL/g	SW-846 7471A	9/5/2013	13:23	fgo
Benzene	< 0.250	mg/kg	SW-846 8260B	9/7/2013	20:28	fgo
VOC 5035 Extraction	10/10.2	mg/kg	SW-846 8260B	9/7/2013	10:00	fgo
Sulfate	< 100	mg/kg	Tex-620-J	9/13/2013	12:02	fgo
Sulfate Extraction/Leaching	50/5.17	mL/g	Tex-620-J	9/10/2013	15:50	fgo
1005 TPH Extraction Solid	10/10.5	mL/g	TNRCC TX 1005	9/7/2013	10:00	fgo
C12 to C28 TPH	209,000	mg/kg	TNRCC TX 1005	9/7/2013	13:46	fgo
C28 to C36 TPH	18,700	mg/kg	TNRCC TX 1005	9/7/2013	13:46	fgo
C6 to C12 TPH	11,600	mg/kg	TNRCC TX 1005	9/7/2013	13:46	fgo
C6 to C36 TPH	239,000	mg/kg	TNRCC TX 1005	9/7/2013	13:46	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	104	%	True Value	20 ppm
	CCV2	Recovery	92.5	%	True Value	10 ppm
	CCV3	Recovery	95.6	%	True Value	10 ppm
	Dup-A	A Reading	1,800	ppm		
	Dup-B	B Reading	1,730	ppm		
	Dup-RPD1	Relative% Difference	4.03	%		
	LCS-RPD	Relative% Difference	7.55	%		
	MS	Recovery	96.9	%	Spike Amount	8 ppm
C6-C12, TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	98.6	%	True Value	1000 ppm
	CCV2	Recovery	103	%	True Value	1000 ppm
	Dup-A	A Reading	11,600	ppm		
	Dup-B	B Reading	11,700	ppm		
	Dup-RPD1	Relative% Difference	1.4	%		
	LCS	Recovery	103	%	Spike Amount	500 ppm
	LCSD	Recovery	117	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	13	%		
C12-C28, TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	107	%	True Value	1000 ppm
	CCV2	Recovery	103	%	True Value	1000 ppm
	Dup-A	A Reading	209,000	ppm		
	Dup-B	B Reading	162,000	ppm		
	Dup-RPD1	Relative% Difference	25.4	%		
	LCS	Recovery	99	%	Spike Amount	500 ppm
	LCSD	Recovery	107	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	8.18	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	98.2	%	True Value	0.02 ppm
	LCS	Recovery	89.2	%	Spike Amount	0.02 ppm
	MS	Recovery	89.3	%	Spike Amount	0.02 ppm
	MSD	Recovery	97.5	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	8.78	%		
Alkalinity	Dup-A	A Reading	6,150	ppm		
	Dup-B	B Reading	7,500	ppm		
	Dup-RPD1	Relative% Difference	19.8	%		
Electical Conductivity	Dup-A(EC)	Reading	21.37	mho/c		
	Dup-B(EC)	Reading	20.82	mho/c		
	Dup-RPD1	Relative% Difference	2.61	%		
	Standard1(EC)	Reading	14.92	mho/c	True Value	14.13 mho/c
	Standard2(EC)	Reading	14.95	mho/c	True Value	14.13 mho/c

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Analyte	QC Parameter		Result	Units	Reference Value	Units
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	28	%		
	Dup-B%	B Reading	28.5	%		
	Dup-RPD1	Relative% Difference	2	%		
pH at 25 C	Dup-A(pH)	Reading	11.14	SU		
	Dup-B(pH)	Reading	11.15	SU		
	Dup-RPD1	Relative% Difference	0.0897	%		
	pH 10 Buffer(1st)	Reading	9.98	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	10	SU	True Value	10.01 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	107	%	True Value	20 ppm
	CCV2	Recovery	113	%	True Value	20 ppm
	Dup-A	A Reading	< 100	ppm		
	Dup-B	B Reading	< 100	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	LCS	Recovery	93.7	%	Spike Amount	8000 ppm
	LCSD	Recovery	96.6	%	Spike Amount	8000 ppm
	LCS-RPD	Relative% Difference	3.09	%		
	MS	Recovery	86.2	%	Spike Amount	10 ppm
Barium, True Total	Blank	Method Blank	< 0.25	ppm		
	CCV1	Recovery	99	%	True Value	10 ppm
	CCV2	Recovery	101	%	True Value	10 ppm
	Dup-A	A Reading	406,000	ppm		
	Dup-B	B Reading	396,000	ppm		
	Dup-RPD1	Relative% Difference	2.27	%		
	ICV	Recovery	95.3	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	105	%	True Value	0.005 ppm
	CCV2	Recovery	101	%	True Value	0.005 ppm
	LCS	Recovery	99.6	%	Spike Amount	0.005 ppm
	LCSD	Recovery	96.6	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	3.11	%		
	MS	Recovery	92.4	%	Spike Amount	0.005 ppm
	MSD	Recovery	99.9	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	7.86	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	98.3	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	79.5	%	Spike Amount	0.5 ppm
	LCSD	Recovery	77.2	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.05	%		
	MS	Recovery	74.8	%	Spike Amount	0.5 ppm
	MSD	Recovery	86.2	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	14.2	%		
Ca, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	91.2	%	True Value	100 ppm
	CCV2	Recovery	98.1	%	True Value	100 ppm
	Dup-A	A Reading	4,170	ppm		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	Dup-B	B Reading	4,000	ppm		
	Dup-RPD1	Relative% Difference	4.15	%		
	ICV	Recovery	97.6	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	5 ppm
	CCV4	Recovery	97.6	%	True Value	5 ppm
	ICV	Recovery	97.7	%	True Value	2.5 ppm
	LCS	Recovery	79.3	%	Spike Amount	0.25 ppm
	LCSD	Recovery	79	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	0.374	%		
	MS	Recovery	79.2	%	Spike Amount	0.25 ppm
	MSD	Recovery	80.2	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	1.26	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	98.6	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	81.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	79.8	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.31	%		
	MS	Recovery	82	%	Spike Amount	0.5 ppm
	MSD	Recovery	89.4	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	8.58	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	97.8	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	79.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	80.1	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.432	%		
	MS	Recovery	70.3	%	Spike Amount	0.5 ppm
	MSD	Recovery	73.1	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	3.86	%		
Mg, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	94.8	%	True Value	100 ppm
	CCV2	Recovery	98.8	%	True Value	100 ppm
	Dup-A	A Reading	< 0.500	ppm		
	Dup-B	B Reading	< 0.500	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	ICV	Recovery	101	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	101	%	True Value	100 ppm
	CCV2	Recovery	98.5	%	True Value	100 ppm
	Dup-A	A Reading	377	ppm		
	Dup-B	B Reading	360	ppm		
	Dup-RPD1	Relative% Difference	4.55	%		
	ICV	Recovery	99.5	%	True Value	50 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	101	%	True Value	10 ppm
	CCV4	Recovery	98.1	%	True Value	10 ppm
	ICV	Recovery	99.6	%	True Value	5 ppm
	LCS	Recovery	79.2	%	Spike Amount	0.5 ppm
	LCSD	Recovery	76.6	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.33	%		
	MS	Recovery	69.5	%	Spike Amount	0.5 ppm
	MSD	Recovery	78.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	12.1	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	2 ppm
	CCV4	Recovery	98	%	True Value	2 ppm
	ICV	Recovery	98.4	%	True Value	1 ppm
	LCS	Recovery	80.3	%	Spike Amount	0.1 ppm
	LCSD	Recovery	80.3	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	0.028	%		
	MS	Recovery	81.7	%	Spike Amount	0.1 ppm
	MSD	Recovery	84.7	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	3.61	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	100	%	True Value	10 ppm
	CCV4	Recovery	97.4	%	True Value	10 ppm
	ICV	Recovery	97.6	%	True Value	5 ppm
	LCS	Recovery	79.2	%	Spike Amount	0.5 ppm
	LCSD	Recovery	79.2	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.0169	%		
	MS	Recovery	85.3	%	Spike Amount	0.5 ppm
	MSD	Recovery	88.6	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	3.81	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	88.2	%		
	Dup-B%	B Reading	88.2	%		
	Dup-RPD1	Relative% Difference	0.00119	%		

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Greg Oliver, Lab Manager

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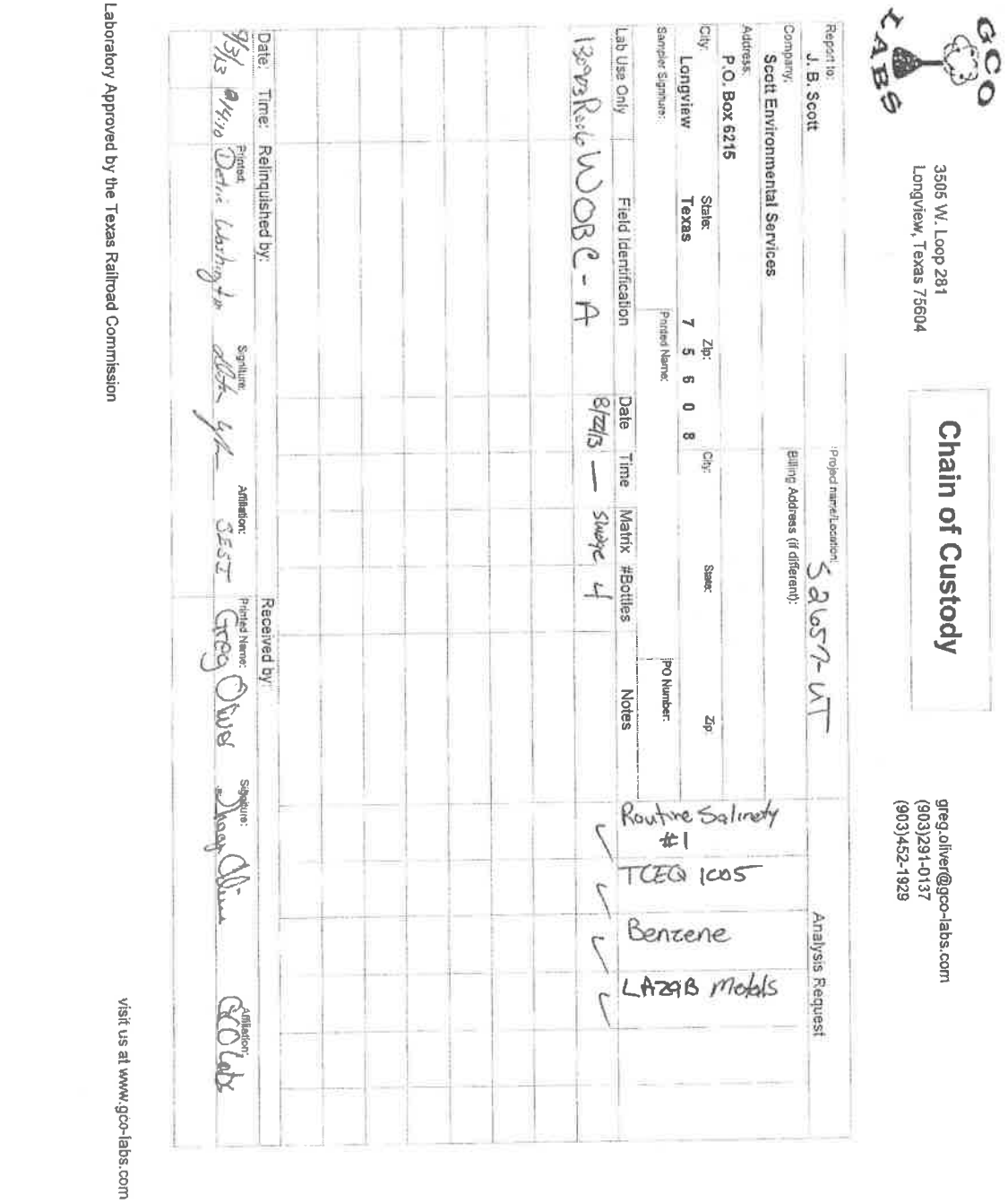

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Chain of Custody

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Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: S2657-UT
Billing Address (if different):
City: State: Zip:
PO Number:

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Analysis Request
130903R006	WOBC-A	8/27/13	—	Sludge	4		Routine Salinity #1 ✓
							TCEQ 1005 ✓
							Benzene ✓
							LA29B Mobils ✓

Relinquished by:

Date:	Printed:	Signature:	Affiliation:
8/27/13	Derrick Worthington		GEST

Received by:

Time:	Printed Name:	Signature:	Affiliation:
0745	Greg Oliver		GCO Labs

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Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2720-UT**
Cust. Sample: **WOBC-A**
Lab ID: 131206M002

Collected; 11/12/2013
Received: 12/6/2013
Report Date: 7/8/2014

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	12/6/2013	12:17	fgo
EC at Saturation	56.2	mho/cm	LA 29B	12/12/2013	16:10	fgo
Electrical Conductance at 25 C	13.5	mho/cm	LA 29B	12/10/2013	15:15	fgo
Hydrophobicity	Positive	Result	LA 29B	12/7/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	11.2	SU	LA 29B	12/12/2013	13:40	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	12/11/2013	13:25	fgo
Saturation Water Percentage (dried s	24	%	LA 29B	12/12/2013	16:10	fgo
Sodium Adsorption Ratio	0.38	meq/meq	LA 29B	12/13/2013	10:55	fgo
Soluble Cation Extraction	80/80	mL/g	LA 29B	12/9/2013	16:37	fgo
Special Total Ba Metals Prep	500/0.1244	mL/g	LA 29B	12/11/2013	13:25	fgo
Extraction (3-Day SESI)	50/5.28	mL/g	LA29B*Modified	12/6/2013	13:01	fgo
Chloride (LA29 3D EXIC)	2,290	mg/kg	LA29B-Mod SESI	12/20/2013	12:18	fgo
Free Alkalinity (Phenyl	5,390	mg/kg	SM 2320B	12/23/2013	12:15	fgo
Total Solids for Dry Wt	91.5	%	SM 2540 G	12/6/2013	14:30	fgo
Solid/Organic Metals Digestion	100/1.36	mL/g	SW-846 3050B	12/7/2013	18:20	fgo
Arsenic	5.63	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Calcium (Water Soluble)	132	meq/L	SW-846 6010B	12/13/2013	10:55	fgo
Chromium	13.8	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Lead	6.95	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	12/13/2013	10:55	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Sodium (Water Soluble)	3.11	meq/L	SW-846 6010B	12/13/2013	10:55	fgo
True Total Barium	259,000	mg/kg	SW-846 6010B	12/13/2013	10:55	fgo
Zinc	15.4	mg/kg	SW-846 6010B	12/8/2013	16:48	fgo
Mercury	0.109	mg/kg	SW-846 7471A	12/18/2013	12:17	fgo
Solid Metal Digestion Hg	100/0.56	mL/g	SW-846 7471A	12/9/2013	11:35	fgo
Benzene	< 0.250	mg/kg	SW-846 8260B	12/14/2013	18:39	fgo
VOC 5035 Extraction	10/10.4	mg/kg	SW-846 8260B	12/9/2013	10:36	fgo
Sulfate	592	mg/kg	Tex-620-J	12/10/2013	15:05	fgo
Sulfate Extraction/Leaching	50/5.26	mL/g	Tex-620-J	12/9/2013	14:00	fgo
1005 TPH Extraction Solid	10/10.4	mL/g	TNRCC TX 1005	12/14/2013	10:28	fgo
C12 to C28 TPH	87,100	mg/kg	TNRCC TX 1005	12/14/2013	21:05	fgo
C28 to C36 TPH	18,200	mg/kg	TNRCC TX 1005	12/14/2013	21:05	fgo
C6 to C12 TPH	6,150	mg/kg	TNRCC TX 1005	12/14/2013	21:05	fgo
C6 to C36 TPH	111,000	mg/kg	TNRCC TX 1005	12/14/2013	21:05	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	103	%	True Value	20 ppm
	CCV2	Recovery	96.2	%	True Value	10 ppm
	CCV3	Recovery	101	%	True Value	10 ppm
	Dup-A	A Reading	3,590	ppm		
	Dup-B	B Reading	3,570	ppm		
	Dup-RPD1	Relative% Difference	0.581	%		
	LCS	Recovery	87	%	Spike Amount	4000 ppm
	LCSD	Recovery	80.7	%	Spike Amount	4000 ppm
	LCS-RPD	Relative% Difference	7.53	%		
	MS	Recovery	101	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	96.2	%	True Value	1000 ppm
	CCV2	Recovery	105	%	True Value	1000 ppm
	Dup-A	A Reading	1,870	ppm		
	Dup-B	B Reading	3,180	ppm		
	LCS	Recovery	97.9	%	Spike Amount	500 ppm
	LCSD	Recovery	87.8	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	10.9	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	109	%	True Value	1000 ppm
	CCV2	Recovery	119	%	True Value	1000 ppm
	Dup-A	A Reading	67,500	ppm		
	Dup-B	B Reading	64,600	ppm		
	Dup-RPD1	Relative% Difference	4.35	%		
	LCS	Recovery	106	%	Spike Amount	500 ppm
	LCSD	Recovery	101	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	5.05	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	108	%	True Value	0.02 ppm
	LCS	Recovery	108	%	Spike Amount	0.02 ppm
	LCSD	Recovery	109	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.415	%		
	MS	Recovery	120	%	Spike Amount	0.02 ppm
	MSD	Recovery	105	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	13.4	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	19,400	ppm		
	Dup-B	B Reading	20,900	ppm		
	Dup-RPD1	Relative% Difference	7.29	%		
	LCS	Recovery	100	%	Spike Amount	50000 ppm
	LCSD	Recovery	98	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	2.02	%		
Electrical Conductivity	Dup-A(EC)	Reading	6.38	mho/c		
	Dup-B(EC)	Reading	6.27	mho/c		
	Dup-RPD1	Relative% Difference	1.74	%		
	Standard1(EC)	Reading	14.26	mho/c	True Value	14.13 mho/c
	Standard2(EC)	Reading	14.19	mho/c	True Value	14.13 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	36.8	%		
	Dup-B%	B Reading	37.6	%		
	Dup-RPD1	Relative% Difference	2.23	%		
pH25	Dup-A(pH)	Reading	10.86	SU		
	Dup-B(pH)	Reading	10.84	SU		
	Dup-RPD1	Relative% Difference	0.184	%		
	pH 10 Buffer(1st)	Reading	9.99	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	9.99	SU	True Value	10.01 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	95.8	%	True Value	20 ppm
	CCV2	Recovery	100	%	True Value	20 ppm
	Dup-A	A Reading	16,000	ppm		
	Dup-B	B Reading	15,800	ppm		
	Dup-RPD1	Relative% Difference	1.3	%		
	LCS	Recovery	98.4	%	Spike Amount	4000 ppm
	LCSD	Recovery	104	%	Spike Amount	4000 ppm
	LCS-RPD	Relative% Difference	5.21	%		
	MS	Recovery	91	%	Spike Amount	10 ppm
Barium, True Total	Blank	Method Blank	< 0.0050	ppm		
	CCV2	Recovery	97.6	%	True Value	10 ppm
	CCV3	Recovery	98.2	%	True Value	10 ppm
	Dup-A	A Reading	60,600	ppm		
	Dup-B	B Reading	43,500	ppm		
	ICV	Recovery	95.9	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV2	Recovery	101	%	True Value	0.005 ppm
	CCV3	Recovery	100	%	True Value	0.005 ppm
	LCS	Recovery	108	%	Spike Amount	0.005 ppm
	LCSD	Recovery	105	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	2.72	%		
	MS	Recovery	105	%	Spike Amount	0.005 ppm
	MSD	Recovery	114	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	7.95	%		
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	97.5	%	True Value	10 ppm
	CCV2	Recovery	90.9	%	True Value	10 ppm
	ICV	Recovery	96.1	%	True Value	5 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
	LCS	Recovery	95.3	%	Spike Amount	0.5 ppm
	LCSD	Recovery	92.5	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.88	%		
	MS	Recovery	88.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	85.6	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	3.48	%		
Ca, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	101	%	True Value	100 ppm
	CCV2	Recovery	96.7	%	True Value	100 ppm
	Dup-A	A Reading	1,640	ppm		
	Dup-B	B Reading	2,490	ppm		
	ICV	Recovery	98	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	98	%	True Value	5 ppm
	CCV2	Recovery	93.3	%	True Value	5 ppm
	ICV	Recovery	96.2	%	True Value	2.5 ppm
	LCS	Recovery	93.8	%	Spike Amount	0.25 ppm
	LCSD	Recovery	93.1	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	0.756	%		
	MS	Recovery	86.6	%	Spike Amount	0.25 ppm
	MSD	Recovery	86.8	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	0.213	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	97.1	%	True Value	10 ppm
	CCV2	Recovery	91.7	%	True Value	10 ppm
	ICV	Recovery	96.4	%	True Value	5 ppm
	LCS	Recovery	95.6	%	Spike Amount	0.5 ppm
	LCSD	Recovery	95	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.678	%		
	MSD	Recovery	79.2	%	Spike Amount	0.5 ppm
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	97.6	%	True Value	10 ppm
	CCV2	Recovery	92.8	%	True Value	10 ppm
	ICV	Recovery	96.5	%	True Value	5 ppm
	LCS	Recovery	95.2	%	Spike Amount	0.5 ppm
	LCSD	Recovery	94.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	0.852	%		
	MS	Recovery	60.2	%	Spike Amount	0.5 ppm
	MSD	Recovery	78.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	26.7	%		
Mg, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	102	%	True Value	100 ppm
	CCV2	Recovery	98.2	%	True Value	100 ppm
	Dup-A	A Reading	< 0.500	ppm		
	Dup-B	B Reading	< 0.500	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	ICV	Recovery	103	%	True Value	50 ppm

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	101	%	True Value	100 ppm
	CCV2	Recovery	96.7	%	True Value	100 ppm
	Dup-A	A Reading	629	ppm		
	Dup-B	B Reading	647	ppm		
	Dup-RPD1	Relative% Difference	2.79	%		
	ICV	Recovery	100	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	97.2	%	True Value	10 ppm
	CCV2	Recovery	90.3	%	True Value	10 ppm
	ICV	Recovery	98.1	%	True Value	5 ppm
	LCS	Recovery	92.4	%	Spike Amount	0.5 ppm
	LCSD	Recovery	88.7	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	4.05	%		
	MS	Recovery	89.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	87.8	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.1	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	97.4	%	True Value	2 ppm
	CCV2	Recovery	90.7	%	True Value	2 ppm
	ICV	Recovery	96.3	%	True Value	1 ppm
	LCS	Recovery	96.2	%	Spike Amount	0.1 ppm
	LCSD	Recovery	95.3	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	1.03	%		
	MS	Recovery	95.2	%	Spike Amount	0.1 ppm
	MSD	Recovery	96.1	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	0.922	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV1	Recovery	98.1	%	True Value	10 ppm
	CCV2	Recovery	92.8	%	True Value	10 ppm
	ICV	Recovery	96	%	True Value	5 ppm
	LCS	Recovery	92.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	91.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	1.03	%		
	MS	Recovery	83.5	%	Spike Amount	0.5 ppm
	MSD	Recovery	104	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	22	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	82.1	%		
	Dup-B%	B Reading	82.3	%		
	Dup-RPD1	Relative% Difference	0.204	%		

Approved by

Greg Oliver, Lab Manager

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Chain of Custody

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Report to: J. B. Scott	Project name/Location: S2720-UT
Company: Scott Environmental Services	Billing Address (if different):
Address: P.O. Box 6215	
City: Longview State: Texas Zip: 7 5 6 0 8	City: State: Zip:
Sampler Signature: Printed Name:	PO Number:

Analysis Request

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Routine Salinity #1	Benzene	TCEQ 1005	LA 29B metals
131206M002	WOBC-A	11/12/13		solid	4		✓	✓	✓	✓

Date:	Time:	Relinquished by: Printed:	Signature:	Affiliation:	Received by: Printed Name:	Signature:	Affiliation:
12/6/13	11:50	Detrice Washington	[signature]	SESI	Greg Oliver	[signature]	GCO Labs

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S2669-UT

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Customer: J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2669-UT** Collected; 10/14/2013
Cust. Sample: **WOBC** Received: 10/23/2013
Lab ID: 131023Q001 Report Date: 11/7/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/23/2013	17:00	fgo
EC at Saturation	77.5	mho/cm	LA 29B	10/29/2013	16:00	fgo
Electrical Conductance at 25 C	21.4	mho/cm	LA 29B	10/29/2013	16:00	fgo
Hydrophobicity	Positive	Result	LA 29B	10/24/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.8	SU	LA 29B	10/28/2013	13:10	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/28/2013	15:15	fgo
Saturation Water Percentage (dried s	28	%	LA 29B	10/28/2013	14:00	fgo
Sodium Adsorption Ratio	1.7	meq/meq	LA 29B	10/29/2013	12:01	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/28/2013	13:00	fgo
Special Total Ba Metals Prep	500/0.1540	mL/g	LA 29B	10/28/2013	15:15	fgo
Extraction (3-Day SESI)	50/5.20	mL/g	LA29B*Modified	10/23/2013	15:49	fgo
Chloride (LA29 3D EXIC)	4,940	mg/kg	LA29B-Mod SESI	12/28/2013	14:29	fgo
Free Alkalinity (Phenyl	5,950	mg/kg	SM 2320B	10/30/2013	12:40	fgo
Total Solids for Dry Wt	88.0	%	SM 2540 G	10/23/2013	16:30	fgo
Solid/Organic Metals Digestion	100/1.35	mL/g	SW-846 3050B	10/25/2013	13:22	fgo
Arsenic	4.45	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Calcium (Water Soluble)	213	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Chromium	9.28	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Lead	6.25	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Sodium (Water Soluble)	17.7	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
True Total Barium	239,000	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Zinc	26.9	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Mercury	0.0496	mg/kg	SW-846 7471A	10/29/2013	14:51	fgo
Solid Metal Digestion Hg	100/0.55	mL/g	SW-846 7471A	10/24/2013	13:30	fgo
Benzene	< 0.136	mg/kg	SW-846 8260B	10/27/2013	15:45	fgo
VOC 5035 Extraction	10/10.1	mg/kg	SW-846 8260B	10/25/2013	10:19	fgo
Sulfate	503	mg/kg	Tex-620-J	10/29/2013	13:01	fgo
Sulfate Extraction/Leaching	50/5.19	mL/g	Tex-620-J	10/25/2013	15:53	fgo
1005 TPH Extraction Solid	10/10.2	mL/g	TNRCC TX 1005	10/25/2013	10:03	fgo
C12 to C28 TPH	127,000	mg/kg	TNRCC TX 1005	10/27/2013	13:57	fgo
C28 to C36 TPH	18,300	mg/kg	TNRCC TX 1005	10/27/2013	13:57	fgo
C6 to C12 TPH	7,480	mg/kg	TNRCC TX 1005	10/27/2013	13:57	fgo
C6 to C36 TPH	153,000	mg/kg	TNRCC TX 1005	10/27/2013	14:57	fgo

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Project: **S2669-UT** Collected; 10/14/2013

Cust. Sample: **POBC** Received: 10/23/2013

Lab ID: 131023Q002 Report Date: 11/7/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/23/2013	17:00	fgo
EC at Saturation	65.0	mho/cm	LA 29B	10/29/2013	16:00	fgo
Electrical Conductance at 25 C	18.2	mho/cm	LA 29B	10/29/2013	16:00	fgo
Hydrophobicity	Positive	Result	LA 29B	10/24/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.0	SU	LA 29B	10/28/2013	13:10	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/28/2013	15:15	fgo
Saturation Water Percentage (dried s	28	%	LA 29B	10/28/2013	14:00	fgo
Sodium Adsorption Ratio	2.3	meq/meq	LA 29B	10/29/2013	12:01	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/28/2013	13:00	fgo
Special Total Ba Metals Prep	500/0.1216	mL/g	LA 29B	10/28/2013	15:15	fgo
Extraction (3-Day SESI)	50/5.17	mL/g	LA29B*Modified	10/23/2013	15:49	fgo
Chloride (LA29 3D EXIC)	4,940	mg/kg	LA29B-Mod SESI	12/28/2013	15:20	fgo
Free Alkalinity (Phenyl	6,950	mg/kg	SM 2320B	10/30/2013	12:40	fgo
Total Solids for Dry Wt	90.5	%	SM 2540 G	10/23/2013	16:30	fgo
Solid/Organic Metals Digestion	100/1.38	mL/g	SW-846 3050B	10/25/2013	13:22	fgo
Arsenic	2.57	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Calcium (Water Soluble)	175	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Chromium	16.7	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Lead	6.20	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Sodium (Water Soluble)	21.2	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
True Total Barium	145,000	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Zinc	29.9	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Mercury	0.182	mg/kg	SW-846 7471A	10/29/2013	14:51	fgo
Solid Metal Digestion Hg	100/0.57	mL/g	SW-846 7471A	10/24/2013	13:30	fgo
Benzene	< 0.152	mg/kg	SW-846 8260B	10/27/2013	17:04	fgo
VOC 5035 Extraction	10/10.3	mg/kg	SW-846 8260B	10/25/2013	10:19	fgo
Sulfate	1,420	mg/kg	Tex-620-J	10/29/2013	15:57	fgo
Sulfate Extraction/Leaching	50/5.27	mL/g	Tex-620-J	10/25/2013	15:53	fgo
1005 TPH Extraction Solid	10/10.5	mL/g	TNRCC TX 1005	10/25/2013	10:03	fgo
C12 to C28 TPH	93,800	mg/kg	TNRCC TX 1005	10/27/2013	14:56	fgo
C28 to C36 TPH	17,200	mg/kg	TNRCC TX 1005	10/27/2013	14:56	fgo
C6 to C12 TPH	4,270	mg/kg	TNRCC TX 1005	10/27/2013	14:56	fgo
C6 to C36 TPH	115,000	mg/kg	TNRCC TX 1005	10/27/2013	14:56	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	102	%	True Value	20 ppm
	CCV2	Recovery	94.6	%	True Value	10 ppm
	CCV3	Recovery	96.9	%	True Value	10 ppm
	Dup-A	A Reading	4,940	ppm		
	Dup-B	B Reading	5,180	ppm		
	Dup-RPD1	Relative% Difference	4.65	%		
	LCS	Recovery	97.4	%	Spike Amount	9000 ppm
	LCSD	Recovery	85.9	%	Spike Amount	9000 ppm
	LCS-RPD	Relative% Difference	12.5	%		
	MS	Recovery	105	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	96	%	True Value	1000 ppm
	CCV2	Recovery	108	%	True Value	1000 ppm
	Dup-A	A Reading	7,480	ppm		
	Dup-B	B Reading	5,310	ppm		
	Dup-RPD1	Relative% Difference	33.9 H	%		
	LCS	Recovery	89.8	%	Spike Amount	500 ppm
	LCSD	Recovery	99.5	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	10.3	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	104	%	True Value	1000 ppm
	CCV2	Recovery	109	%	True Value	1000 ppm
	Dup-A	A Reading	127,000	ppm		
	Dup-B	B Reading	114,000	ppm		
	Dup-RPD1	Relative% Difference	10.8	%		
	LCS	Recovery	99.8	%	Spike Amount	500 ppm
	LCSD	Recovery	102	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	1.88	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	114	%	True Value	0.02 ppm
	LCS	Recovery	110	%	Spike Amount	0.02 ppm
	LCSD	Recovery	110	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.818	%		
	MS	Recovery	98	%	Spike Amount	0.02 ppm
	MSD	Recovery	98.5	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	0.407	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	5,950	ppm		
	Dup-B	B Reading	5,940	ppm		
	Dup-RPD1	Relative% Difference	0.0396	%		
	LCS	Recovery	96	%	Spike Amount	50000 ppm
	LCSD	Recovery	102	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	6.06	%		
Electrical Conductivity	Dup-A(EC)	Reading	21.42	mho/c		
	Dup-B(EC)	Reading	21.29	mho/c		
	Dup-RPD1	Relative% Difference	0.609	%		
	Standard1(EC)	Reading	14.79	mho/c	True Value	14.13 mho/c
	Standard2(EC)	Reading	14.82	mho/c	True Value	14.13 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	27.6	%		
	Dup-B%	B Reading	26.6	%		
	Dup-RPD1	Relative% Difference	3.81	%		
pH at 25C	Dup-A(pH)	Reading	10.78	SU		
	Dup-B(pH)	Reading	10.78	SU		
	Dup-RPD1	Relative% Difference	< 0.100	%		
	pH 10 Buffer(1st)	Reading	9.99	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	9.99	SU	True Value	10.01 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	102	%	True Value	40 ppm
	CCV2	Recovery	93.4	%	True Value	20 ppm
	CCV3	Recovery	98	%	True Value	20 ppm
	Dup-A	A Reading	503	ppm		
	Dup-B	B Reading	540	ppm		
	Dup-RPD1	Relative% Difference	7.05	%		
	LCS	Recovery	99.5	%	Spike Amount	5000 ppm
	LCSD	Recovery	108	%	Spike Amount	5000 ppm
	LCS-RPD	Relative% Difference	8.21	%		
	MS	Recovery	93.1	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.10	ppm		
	CCV2	Recovery	99.3	%	True Value	10 ppm
	CCV3	Recovery	99.5	%	True Value	10 ppm
	Dup-A	A Reading	239,000	ppm		
	Dup-B	B Reading	210,000	ppm		
	Dup-RPD1	Relative% Difference	13	%		
	ICV	Recovery	95.6	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	105	%	True Value	0.005 ppm
	CCV3	Recovery	107	%	True Value	0.005 ppm
	LCS	Recovery	99.8	%	Spike Amount	0.005 ppm
	LCSD	Recovery	99.7	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	0.0427	%		
	MS	Recovery	85.6	%	Spike Amount	0.005 ppm
	MSD	Recovery	97.5	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	13.1	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.5	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.4	%	True Value	5 ppm
	LCS	Recovery	83.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	7.12	%		
	MS	Recovery	74.9	%	Spike Amount	0.5 ppm
	MSD	Recovery	85	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	12.7	%		
Ca, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	95.1	%	True Value	100 ppm
	CCV2	Recovery	99.2	%	True Value	100 ppm
	Dup-A	A Reading	4,260	ppm		
	Dup-B	B Reading	4,370	ppm		
	Dup-RPD1	Relative% Difference	2.4	%		
	ICV	Recovery	98.6	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.5	%	True Value	5 ppm
	CCV4	Recovery	101	%	True Value	5 ppm
	ICV	Recovery	97.2	%	True Value	2.5 ppm
	LCS	Recovery	87.1	%	Spike Amount	0.25 ppm
	LCSD	Recovery	89.4	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	2.59	%		
	MS	Recovery	84.8	%	Spike Amount	0.25 ppm
	MSD	Recovery	86.9	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	2.49	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99.3	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	86.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	92.2	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	6.12	%		
	MS	Recovery	81.1	%	Spike Amount	0.5 ppm
	MSD	Recovery	87.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	7.88	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.6	%	True Value	5 ppm
	LCS	Recovery	88.6	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.56	%		
	MS	Recovery	81.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	80	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.21	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Mg, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	99.8	%	True Value	100 ppm
	CCV2	Recovery	99.1	%	True Value	100 ppm
	Dup-A	A Reading	< 0.500	ppm		
	Dup-B	B Reading	< 0.500	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	ICV	Recovery	101	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	98	%	True Value	100 ppm
	CCV2	Recovery	99.1	%	True Value	100 ppm
	Dup-A	A Reading	408	ppm		
	Dup-B	B Reading	409	ppm		
	Dup-RPD1	Relative% Difference	0.215	%		
	ICV	Recovery	100	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.4	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	99.5	%	True Value	5 ppm
	LCS	Recovery	85	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.3	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	6.05	%		
	MS	Recovery	80.1	%	Spike Amount	0.5 ppm
	MSD	Recovery	88.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	9.96	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99.7	%	True Value	2 ppm
	CCV4	Recovery	102	%	True Value	2 ppm
	ICV	Recovery	102	%	True Value	1 ppm
	LCS	Recovery	90.6	%	Spike Amount	0.1 ppm
	LCSD	Recovery	92.8	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	2.47	%		
	MS	Recovery	99.8	%	Spike Amount	0.1 ppm
	MSD	Recovery	103	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	3.16	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.7	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.5	%	True Value	5 ppm
	LCS	Recovery	85.9	%	Spike Amount	0.5 ppm
	LCSD	Recovery	89.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.98	%		
	MS	Recovery	91	%	Spike Amount	0.5 ppm
	MSD	Recovery	95.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	4.89	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	88	%		
	Dup-B%	B Reading	88.4	%		
	Dup-RPD1	Relative% Difference	0.38	%		

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Approved by Greg Oliver

Greg Oliver, Lab Manager

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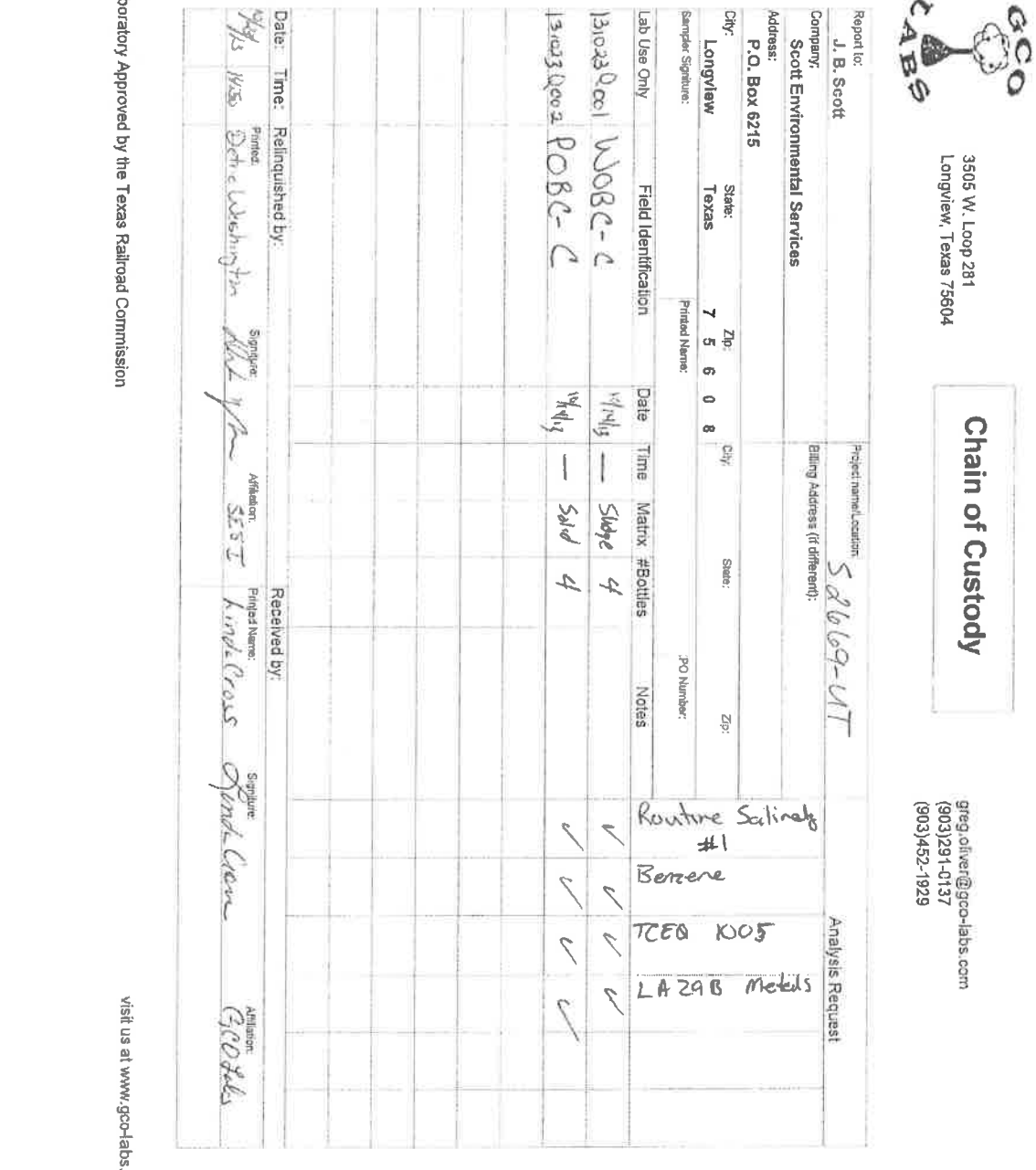

GCO LABS

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Chain of Custody

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Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: S2669-UT
Billing Address (if different):
City: State: Zip:
PO Number:

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Analysis Request			
131023Q001	WOBC-C	9/19/13	—	Sludge	4		✓	✓	✓	✓
131023Q002	POBC-C	9/19/13	—	Solid	4		✓	✓	✓	✓

Routine Salinity #1
Benzene
TCEQ 1005
LA 29B Metals

Date: Time: Relinquished by:
Printed: Beth Washington Signature: Affiliation: SEST

Received by:
Printed Name: Linda Cross Signature: Affiliation: GCO Labs

Laboratory Approved by the Texas Railroad Commission

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Patterson 4-9-3-3WH
S2704-UT

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Customer:

J. Blake Scott
Scott Environmental Services, Inc.
P.O. Box 6215
Longview, Texas 75608
USA

Project: **S2704-UT**
Cust. Sample: **WOBC**
Lab ID: 131023Q003

Collected; 10/14/2013
Received: 10/23/2013
Report Date: 11/7/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/23/2013	17:00	fgo
EC at Saturation	72.7	mho/cm	LA 29B	10/29/2013	16:00	fgo
Electrical Conductance at 25 C	26.9	mho/cm	LA 29B	10/29/2013	16:00	fgo
Hydrophobicity	Positive	Result	LA 29B	10/24/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.7	SU	LA 29B	10/28/2013	13:10	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/28/2013	15:15	fgo
Saturation Water Percentage (dried s	37	%	LA 29B	10/28/2013	14:00	fgo
Sodium Adsorption Ratio	2.8	meq/meq	LA 29B	10/29/2013	12:01	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/28/2013	13:00	fgo
Special Total Ba Metals Prep	500/0.1168	mL/g	LA 29B	10/28/2013	15:15	fgo
Extraction (3-Day SESI)	50/5.33	mL/g	LA29B*Modified	10/23/2013	15:49	fgo
Chloride (LA29 3D EXIC)	8,320	mg/kg	LA29B-Mod SESI	12/28/2013	15:34	fgo
Free Alkalinity (Phenyl	4,970	mg/kg	SM 2320B	10/30/2013	12:40	fgo
Total Solids for Dry Wt	89.6	%	SM 2540 G	10/23/2013	16:30	fgo
Solid/Organic Metals Digestion	100/1.36	mL/g	SW-846 3050B	10/25/2013	13:22	fgo
Arsenic	4.21	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Calcium (Water Soluble)	248	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Chromium	13.1	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Lead	8.54	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Sodium (Water Soluble)	31.6	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
True Total Barium	175,000	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Zinc	49.3	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Mercury	0.0562	mg/kg	SW-846 7471A	10/29/2013	14:51	fgo
Solid Metal Digestion Hg	100/0.57	mL/g	SW-846 7471A	10/24/2013	13:30	fgo
Benzene	< 0.192	mg/kg	SW-846 8260B	10/27/2013	17:30	fgo
VOC 5035 Extraction	10/10.3	mg/kg	SW-846 8260B	10/25/2013	10:19	fgo
Sulfate	509	mg/kg	Tex-620-J	10/29/2013	14:10	fgo
Sulfate Extraction/Leaching	50/5.48	mL/g	Tex-620-J	10/25/2013	15:53	fgo
1005 TPH Extraction Solid	10/10.2	mL/g	TNRCC TX 1005	10/25/2013	10:03	fgo
C12 to C28 TPH	120,000	mg/kg	TNRCC TX 1005	10/27/2013	15:26	fgo
C28 to C36 TPH	13,800	mg/kg	TNRCC TX 1005	10/27/2013	15:26	fgo
C6 to C12 TPH	7,240	mg/kg	TNRCC TX 1005	10/27/2013	15:26	fgo
C6 to C36 TPH	141,000	mg/kg	TNRCC TX 1005	10/27/2013	15:26	fgo

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Project: **S2704-UT**
Cust. Sample: **POBC**
Lab ID: 131023Q004

Collected; 10/14/2013
Received: 10/23/2013
Report Date: 11/7/2013

Analysis	Results	Units	Method	Date	Time	Tech
Dry Sample (pH,EC and CEC)	Completed	Result	LA 29B	10/23/2013	17:00	fgo
EC at Saturation	59.3	mho/cm	LA 29B	10/29/2013	16:00	fgo
Electrical Conductance at 25 C	20.5	mho/cm	LA 29B	10/29/2013	16:00	fgo
Hydrophobicity	Positive	Result	LA 29B	10/24/2013	8:00	fgo
pH 1:1 aque(LA29B) @25C	10.3	SU	LA 29B	10/28/2013	13:10	fgo
Sample Prep La - 29B	Completed	mL/g	LA 29B	10/28/2013	15:15	fgo
Saturation Water Percentage (dried s	35	%	LA 29B	10/28/2013	14:00	fgo
Sodium Adsorption Ratio	2.2	meq/meq	LA 29B	10/29/2013	12:01	fgo
Soluble Cation Extraction	80/80.0	mL/g	LA 29B	10/28/2013	13:00	fgo
Special Total Ba Metals Prep	500/0.1442	mL/g	LA 29B	10/28/2013	15:15	fgo
Extraction (3-Day SESI)	50/5.20	mL/g	LA29B*Modified	10/23/2013	15:49	fgo
Chloride (LA29 3D EXIC)	6,350	mg/kg	LA29B-Mod SESI	12/28/2013	15:47	fgo
Free Alkalinity (Phenyl	7,950	mg/kg	SM 2320B	10/30/2013	12:40	fgo
Total Solids for Dry Wt	90.2	%	SM 2540 G	10/23/2013	16:30	fgo
Solid/Organic Metals Digestion	100/1.37	mL/g	SW-846 3050B	10/25/2013	13:22	fgo
Arsenic	6.17	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Cadmium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Calcium (Water Soluble)	117	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Chromium	17.1	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Lead	6.87	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Magnesium (Water Soluble)	< 1.00	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
Selenium	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Silver	< 2.50	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Sodium (Water Soluble)	16.4	meq/L	SW-846 6010B	10/29/2013	12:01	fgo
True Total Barium	134,000	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Zinc	46.4	mg/kg	SW-846 6010B	10/29/2013	12:01	fgo
Mercury	0.160	mg/kg	SW-846 7471A	10/29/2013	14:51	fgo
Solid Metal Digestion Hg	100/0.57	mL/g	SW-846 7471A	10/24/2013	13:30	fgo
Benzene	< 0.156	mg/kg	SW-846 8260B	10/27/2013	17:56	fgo
VOC 5035 Extraction	10/10.3	mg/kg	SW-846 8260B	10/25/2013	10:19	fgo
Sulfate	3,900	mg/kg	Tex-620-J	10/29/2013	14:28	fgo
Sulfate Extraction/Leaching	50/5.21	mL/g	Tex-620-J	10/25/2013	15:53	fgo
1005 TPH Extraction Solid	10/10.1	mL/g	TNRCC TX 1005	10/25/2013	10:03	fgo
C12 to C28 TPH	97,900	mg/kg	TNRCC TX 1005	10/27/2013	15:55	fgo
C28 to C36 TPH	14,000	mg/kg	TNRCC TX 1005	10/27/2013	15:55	fgo
C6 to C12 TPH	5,160	mg/kg	TNRCC TX 1005	10/27/2013	15:55	fgo
C6 to C36 TPH	117,000	mg/kg	TNRCC TX 1005	10/27/2013	15:55	fgo

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Quality Control Data

Analyte	QC Parameter		Result	Units	Reference Value	Units
Chloride	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	102	%	True Value	20 ppm
	CCV2	Recovery	94.6	%	True Value	10 ppm
	CCV3	Recovery	96.9	%	True Value	10 ppm
	Dup-A	A Reading	4,940	ppm		
	Dup-B	B Reading	5,180	ppm		
	Dup-RPD1	Relative% Difference	4.65	%		
	LCS	Recovery	97.4	%	Spike Amount	9000 ppm
	LCSD	Recovery	85.9	%	Spike Amount	9000 ppm
	LCS-RPD	Relative% Difference	12.5	%		
	MS	Recovery	105	%	Spike Amount	8 ppm
C6-C12 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	96	%	True Value	1000 ppm
	CCV2	Recovery	108	%	True Value	1000 ppm
	Dup-A	A Reading	7,480	ppm		
	Dup-B	B Reading	5,310	ppm		
	Dup-RPD1	Relative% Difference	33.9 H	%		
	LCS	Recovery	89.8	%	Spike Amount	500 ppm
	LCSD	Recovery	99.5	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	10.3	%		
C12-C28 TPH	Blank	Method Blank	< 50	ppm		
	CCV1	Recovery	104	%	True Value	1000 ppm
	CCV2	Recovery	109	%	True Value	1000 ppm
	Dup-A	A Reading	127,000	ppm		
	Dup-B	B Reading	114,000	ppm		
	Dup-RPD1	Relative% Difference	10.8	%		
	LCS	Recovery	99.8	%	Spike Amount	500 ppm
	LCSD	Recovery	102	%	Spike Amount	500 ppm
	LCS-RPD	Relative% Difference	1.88	%		
Benzene	Blank	Method Blank	< 0.0010	ppm		
	CCV1	Recovery	114	%	True Value	0.02 ppm
	LCS	Recovery	110	%	Spike Amount	0.02 ppm
	LCSD	Recovery	110	%	Spike Amount	0.02 ppm
	LCS-RPD	Relative% Difference	0.818	%		
	MS	Recovery	98	%	Spike Amount	0.02 ppm
	MSD	Recovery	98.5	%	Spike Amount	0.02 ppm
	MS-RPD	Relative% Difference	0.407	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Alkalinity	Dup-A	A Reading	5,950	ppm		
	Dup-B	B Reading	5,940	ppm		
	Dup-RPD1	Relative% Difference	0.0396	%		
	LCS	Recovery	96	%	Spike Amount	50000 ppm
	LCSD	Recovery	102	%	Spike Amount	50000 ppm
	LCS-RPD	Relative% Difference	6.06	%		
Electrical Conductivity	Dup-A(EC)	Reading	21.42	mho/c		
	Dup-B(EC)	Reading	21.29	mho/c		
	Dup-RPD1	Relative% Difference	0.609	%		
	Standard1(EC)	Reading	14.79	mho/c	True Value	14.13 mho/c
	Standard2(EC)	Reading	14.82	mho/c	True Value	14.13 mho/c
SWP	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	27.6	%		
	Dup-B%	B Reading	26.6	%		
	Dup-RPD1	Relative% Difference	3.81	%		
pH at 25C	Dup-A(pH)	Reading	10.78	SU		
	Dup-B(pH)	Reading	10.78	SU		
	Dup-RPD1	Relative% Difference	< 0.100	%		
	pH 10 Buffer(1st)	Reading	9.99	SU	True Value	10.01 SU
	pH 10 Buffer(2nd)	Reading	9.99	SU	True Value	10.01 SU
Sulfate	Blank	Method Blank	< 0.10	ppm		
	CCV1	Recovery	102	%	True Value	40 ppm
	CCV2	Recovery	93.4	%	True Value	20 ppm
	CCV3	Recovery	98	%	True Value	20 ppm
	Dup-A	A Reading	503	ppm		
	Dup-B	B Reading	540	ppm		
	Dup-RPD1	Relative% Difference	7.05	%		
	LCS	Recovery	99.5	%	Spike Amount	5000 ppm
	LCSD	Recovery	108	%	Spike Amount	5000 ppm
	LCS-RPD	Relative% Difference	8.21	%		
	MS	Recovery	93.1	%	Spike Amount	8 ppm
Barium, True Total	Blank	Method Blank	< 0.10	ppm		
	CCV2	Recovery	99.3	%	True Value	10 ppm
	CCV3	Recovery	99.5	%	True Value	10 ppm
	Dup-A	A Reading	239,000	ppm		
	Dup-B	B Reading	210,000	ppm		
	Dup-RPD1	Relative% Difference	13	%		
	ICV	Recovery	95.6	%	True Value	5 ppm
Mercury	Blank	Method Blank	< 0.00020	ppm		
	CCV1	Recovery	105	%	True Value	0.005 ppm
	CCV3	Recovery	107	%	True Value	0.005 ppm
	LCS	Recovery	99.8	%	Spike Amount	0.005 ppm
	LCSD	Recovery	99.7	%	Spike Amount	0.005 ppm
	LCS-RPD	Relative% Difference	0.0427	%		
	MS	Recovery	85.6	%	Spike Amount	0.005 ppm
	MSD	Recovery	97.5	%	Spike Amount	0.005 ppm
	MS-RPD	Relative% Difference	13.1	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Arsenic	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.5	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.4	%	True Value	5 ppm
	LCS	Recovery	83.8	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	7.12	%		
	MS	Recovery	74.9	%	Spike Amount	0.5 ppm
	MSD	Recovery	85	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	12.7	%		
Ca, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	95.1	%	True Value	100 ppm
	CCV2	Recovery	99.2	%	True Value	100 ppm
	Dup-A	A Reading	4,260	ppm		
	Dup-B	B Reading	4,370	ppm		
	Dup-RPD1	Relative% Difference	2.4	%		
	ICV	Recovery	98.6	%	True Value	50 ppm
Cadmium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.5	%	True Value	5 ppm
	CCV4	Recovery	101	%	True Value	5 ppm
	ICV	Recovery	97.2	%	True Value	2.5 ppm
	LCS	Recovery	87.1	%	Spike Amount	0.25 ppm
	LCSD	Recovery	89.4	%	Spike Amount	0.25 ppm
	LCS-RPD	Relative% Difference	2.59	%		
	MS	Recovery	84.8	%	Spike Amount	0.25 ppm
	MSD	Recovery	86.9	%	Spike Amount	0.25 ppm
	MS-RPD	Relative% Difference	2.49	%		
Chromium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99.3	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.7	%	True Value	5 ppm
	LCS	Recovery	86.7	%	Spike Amount	0.5 ppm
	LCSD	Recovery	92.2	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	6.12	%		
	MS	Recovery	81.1	%	Spike Amount	0.5 ppm
	MSD	Recovery	87.7	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	7.88	%		
Lead	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.6	%	True Value	5 ppm
	LCS	Recovery	88.6	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.9	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	2.56	%		
	MS	Recovery	81.7	%	Spike Amount	0.5 ppm
	MSD	Recovery	80	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	2.21	%		

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Analyte	QC Parameter		Result	Units	Reference Value	Units
Mg, water soluble	Blank	Method Blank	< 0.0050	ppm		
	CCV1	Recovery	99.8	%	True Value	100 ppm
	CCV2	Recovery	99.1	%	True Value	100 ppm
	Dup-A	A Reading	< 0.500	ppm		
	Dup-B	B Reading	< 0.500	ppm		
	Dup-RPD1	Relative% Difference	< 1.00	%		
	ICV	Recovery	101	%	True Value	50 ppm
Na, water soluble	Blank	Method Blank	< 1.0	ppm		
	CCV1	Recovery	98	%	True Value	100 ppm
	CCV2	Recovery	99.1	%	True Value	100 ppm
	Dup-A	A Reading	408	ppm		
	Dup-B	B Reading	409	ppm		
	Dup-RPD1	Relative% Difference	0.215	%		
	ICV	Recovery	100	%	True Value	50 ppm
Selenium	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.4	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	99.5	%	True Value	5 ppm
	LCS	Recovery	85	%	Spike Amount	0.5 ppm
	LCSD	Recovery	90.3	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	6.05	%		
	MS	Recovery	80.1	%	Spike Amount	0.5 ppm
	MSD	Recovery	88.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	9.96	%		
Silver	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	99.7	%	True Value	2 ppm
	CCV4	Recovery	102	%	True Value	2 ppm
	ICV	Recovery	102	%	True Value	1 ppm
	LCS	Recovery	90.6	%	Spike Amount	0.1 ppm
	LCSD	Recovery	92.8	%	Spike Amount	0.1 ppm
	LCS-RPD	Relative% Difference	2.47	%		
	MS	Recovery	99.8	%	Spike Amount	0.1 ppm
	MSD	Recovery	103	%	Spike Amount	0.1 ppm
	MS-RPD	Relative% Difference	3.16	%		
Zinc	Blank	Method Blank	< 2.5	ppm		
	CCV3	Recovery	98.7	%	True Value	10 ppm
	CCV4	Recovery	101	%	True Value	10 ppm
	ICV	Recovery	97.5	%	True Value	5 ppm
	LCS	Recovery	85.9	%	Spike Amount	0.5 ppm
	LCSD	Recovery	89.4	%	Spike Amount	0.5 ppm
	LCS-RPD	Relative% Difference	3.98	%		
	MS	Recovery	91	%	Spike Amount	0.5 ppm
	MSD	Recovery	95.5	%	Spike Amount	0.5 ppm
	MS-RPD	Relative% Difference	4.89	%		
Total Solids	Blank%	Method Blank	< 0.10	%		
	Dup-A%	A Reading	88	%		
	Dup-B%	B Reading	88.4	%		
	Dup-RPD1	Relative% Difference	0.38	%		

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Approved by Greg Oliver

Greg Oliver, Lab Manager

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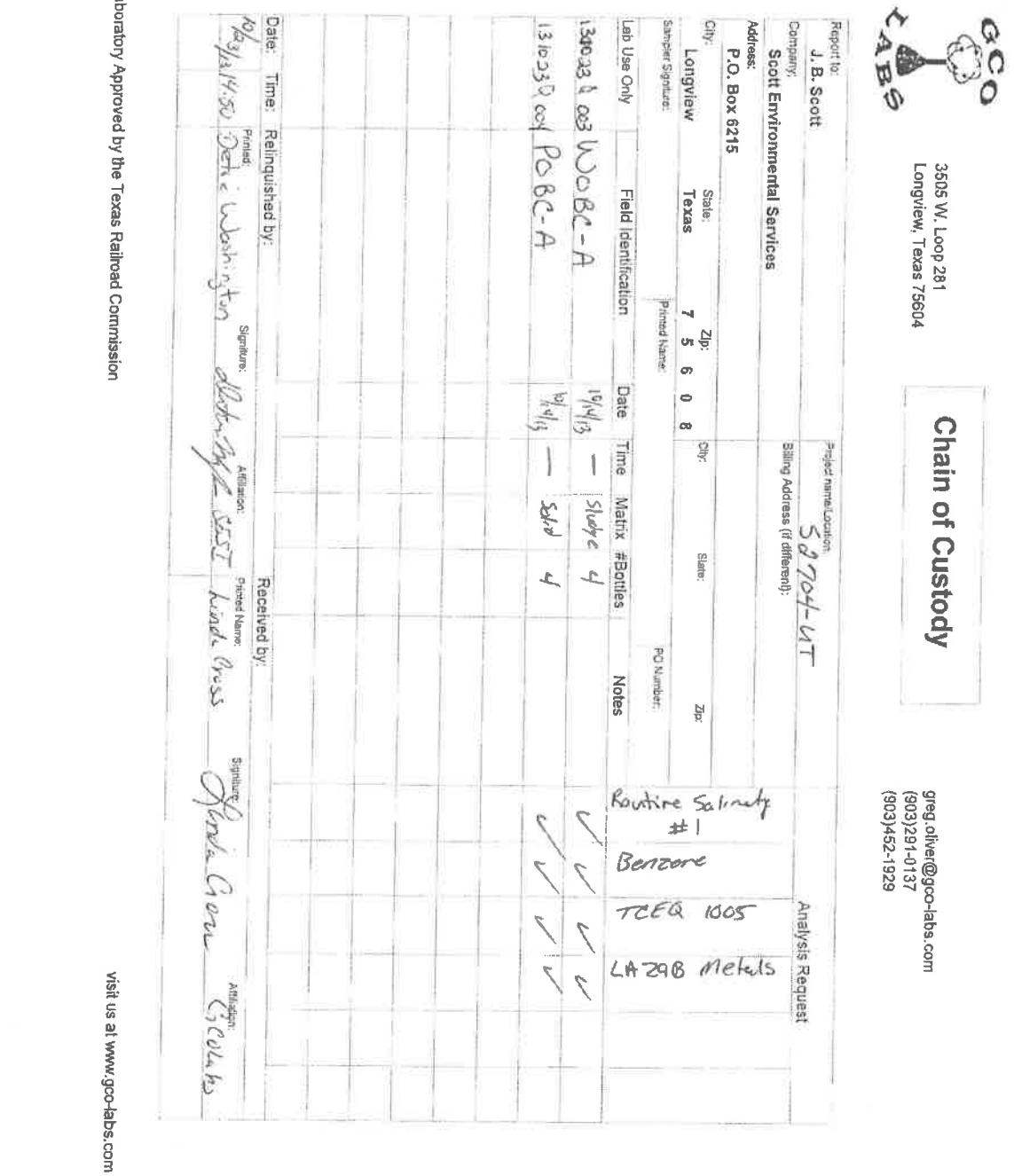

GCO LABS

3505 W. Loop 281
Longview, Texas 75604

Chain of Custody

greg.oliver@gco-labs.com
(903)291-0137
(903)452-1929

Report to: J. B. Scott
Company: Scott Environmental Services
Address: P.O. Box 6215
City: Longview State: Texas Zip: 75608
Sampler Signature: Printed Name:

Project name/Location: S2704-UT
Billing Address (if different):
City: State: Zip:
PO Number:

Lab Use Only	Field Identification	Date	Time	Matrix	#Bottles	Notes	Analysis Request: Routine Salinity # –	Benzene	TCEQ 1005	LA29B Metals
1300330003	WCBC-A	10/4/13	—	Sludge	4		✓	✓	✓	✓
1310230004	PCBC-A	10/4/13	—	Solid	4		✓	✓	✓	✓

Date: 10/23/13 Time: 4:50 Relinquished by: Printed: Debbie Washington Signature: Affiliation: GCO Labs
Received by: Printed Name: Linda Cross Signature: Affiliation: GCO Labs

Laboratory Approved by the Texas Railroad Commission

visit us at www.gco-labs.com

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: 1420H626269

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: UINTAH AND OURAY

7. Unit or CA Agreement Name and No.:

2. Name of Operator: NEWFIELD PRODUCTION COMPANY

8. Lease Name and Well No.: UTE TRIBAL 13-9-4-3-2WH

3. Address: ROUTE #3 BOX 3630, MYTON, UT 84052

3a. Phone No. *(include area code)*: Ph:435-646-3721

9. API Well No.: 43-013-52079

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 276' FNL 1452' FWL (NE/NW) SEC 16 T3S R2W

10. Field and Pool or Exploratory: UNDESIGNATED

11. Sec., T., R., M., on Block and Survey or Area: SEC 16 T3S R2W Mer UBM

At top prod. interval reported below: 405' FSL 711' FWL (SW/SW) SEC 9 T3S R2W

At total depth: 231' FNL 532' FWL (NW/NW) SEC 4 T3S R2W

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
04/13/2014	07/28/2014	☐ D & A ☑ Ready to Prod. 09/03/2014	5256' GL 5283' KB

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 19310' TVD 10,605'	MD 19,261' TVD	MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
19.5"	13-3/8" J-55	54.50	0'	1642'		1225 CLASS G			
12-5/8"	9-5/8" N-80	40	0'	8420'		1316 CLASS G			
8-7/8"	5-1/2" P-110	20	0'	19304'		4097 CLASS G			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@8712'	XN@8670'						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) UTELAND BUTTE	9370'	18979'	9370' - 18979' MD	0.38	1032	
B) UTELAND BUTTE	19129'	19131'	19129' - 19131' MD			SLIDING SLEEVE
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9370' - 18979' MD	Frac w/ 4,224,363#s of proppant sand in 97,171 bbls of clean fluid, in 44 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/3/2014	9/13/14	24	→	795	610	857			GAS LIFT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GARDEN GULCH MARK	6437'
				GARDEN GULCH 2	6851'
				DOUGLAS CREEK	7523'
				CASTLE PEAK	8438'
				BASAL CARB	8758'

32. Additional remarks (include plugging procedure):

Bottom Producing Interval: 324' FNL 532' FWL (NW/NW) SEC 4 T3S R2W

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 10/07/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013520790000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Actual Deviation Survey	Wellbore Name	Parent Wellbore	Job	VS Dir (°)	Profile Type	Kick Off Depth (ftKB)
Actual, Proposed? No	Original Hole		Drilling - Original, 4/13/2014 00:00		Horizontal	8,420

Date	Definitive?	Description	Proposed?
4/17/2014	No	Actual	No

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
7/11/2014	0	0.00	0.00	0	0	0	0	0.00	0.00	0.00	0.00	MWD	Weatherford
4/17/2014	102	0.48	148.34	102	0	0	0	0.47	0.47	145.43	0.43	MWD	Pay Zone
4/17/2014	131	0.57	152.65	131	-1	-1	0	0.34	0.31	14.86	0.69	MWD	Pay Zone
4/17/2014	159	0.57	138.67	159	-1	-1	1	0.50	0.00	-49.93	0.97	MWD	Pay Zone
4/17/2014	186	0.44	131.16	186	-1	-1	1	0.54	-0.48	-27.81	1.21	MWD	Pay Zone
4/17/2014	214	0.26	166.71	214	-1	-1	1	0.98	-0.64	126.96	1.37	MWD	Pay Zone
4/17/2014	232	0.31	190.22	232	-1	-1	1	0.70	0.28	130.61	1.46	MWD	Pay Zone
4/17/2014	269	0.70	195.63	269	-2	-2	1	1.06	1.05	14.62	1.78	MWD	Pay Zone
4/17/2014	298	0.57	173.26	298	-2	-2	1	0.96	-0.45	-77.14	2.10	MWD	Pay Zone
4/17/2014	324	0.62	182.09	324	-2	-2	1	0.40	0.19	33.96	2.37	MWD	Pay Zone
4/17/2014	353	0.75	191.93	353	-2	-2	1	0.60	0.45	33.93	2.71	MWD	Pay Zone
4/17/2014	383	0.75	188.86	383	-3	-3	1	0.13	0.00	-10.23	3.11	MWD	Pay Zone
4/17/2014	415	0.92	218.04	415	-3	-3	0	1.41	0.53	91.19	3.56	MWD	Pay Zone
4/17/2014	445	1.01	205.56	445	-4	-4	0	0.76	0.30	-41.60	4.06	MWD	Pay Zone
4/17/2014	475	1.45	196.77	475	-4	-4	0	1.59	1.47	-29.30	4.70	MWD	Pay Zone
4/17/2014	505	1.71	200.63	505	-5	-5	0	0.94	0.87	12.87	5.53	MWD	Pay Zone
4/17/2014	535	1.36	202.04	535	-6	-6	-1	1.17	-1.17	4.70	6.33	MWD	Pay Zone
4/17/2014	565	1.71	195.89	565	-7	-7	-1	1.29	1.17	-20.50	7.13	MWD	Pay Zone
4/17/2014	595	1.71	200.00	595	-7	-7	-1	0.41	0.00	13.70	8.03	MWD	Pay Zone
4/17/2014	625	2.15	201.43	625	-8	-8	-2	1.48	1.47	4.77	9.04	MWD	Pay Zone
4/17/2014	655	2.37	207.56	655	-9	-9	-2	1.09	0.73	20.43	10.22	MWD	Pay Zone
4/17/2014	685	2.59	221.55	685	-10	-10	-3	2.14	0.73	46.63	11.51	MWD	Pay Zone
4/17/2014	715	2.86	226.83	715	-12	-12	-4	1.23	0.90	17.60	12.93	MWD	Pay Zone
4/17/2014	745	3.08	230.21	745	-13	-13	-5	0.94	0.73	11.27	14.49	MWD	Pay Zone
4/17/2014	775	3.30	240.10	775	-13	-13	-6	1.97	0.73	32.97	16.15	MWD	Pay Zone
4/17/2014	805	3.69	248.10	805	-14	-14	-8	2.08	1.30	26.67	17.98	MWD	Pay Zone
4/17/2014	835	4.00	254.78	835	-15	-15	-10	1.81	1.03	22.27	19.98	MWD	Pay Zone
4/17/2014	865	4.40	265.19	865	-15	-15	-12	2.86	1.33	34.70	22.17	MWD	Pay Zone
4/17/2014	895	4.26	269.80	894	-15	-15	-14	1.25	-0.47	15.37	24.44	MWD	Pay Zone
4/17/2014	925	3.87	269.50	924	-15	-15	-16	1.30	-1.30	-1.00	26.56	MWD	Pay Zone
4/17/2014	955	3.34	270.29	954	-15	-15	-18	1.77	-1.77	2.63	28.45	MWD	Pay Zone
4/17/2014	985	3.03	268.66	984	-15	-15	-20	1.08	-1.03	-5.43	30.11	MWD	Pay Zone
4/17/2014	1,015	3.08	268.66	1,014	-15	-15	-22	0.17	0.17	0.00	31.71	MWD	Pay Zone
4/17/2014	1,045	2.99	272.71	1,044	-15	-15	-23	0.77	-0.30	13.50	33.30	MWD	Pay Zone
4/17/2014	1,075	3.30	273.72	1,074	-15	-15	-25	1.05	1.03	3.37	34.95	MWD	Pay Zone
4/18/2014	1,105	3.19	276.02	1,104	-15	-15	-26	0.57	-0.37	7.67	36.64	MWD	Pay Zone
4/18/2014	1,135	3.47	273.67	1,134	-15	-15	-28	1.04	0.93	-7.83	38.39	MWD	Pay Zone
4/18/2014	1,165	3.65	268.05	1,164	-15	-15	-30	1.31	0.60	-18.73	40.25	MWD	Pay Zone
4/18/2014	1,195	3.69	268.80	1,194	-15	-15	-32	0.21	0.13	2.50	42.17	MWD	Pay Zone
4/18/2014	1,225	4.09	271.17	1,224	-15	-15	-34	1.44	1.33	7.90	44.20	MWD	Pay Zone
4/18/2014	1,255	4.30	268.62	1,254	-15	-15	-36	0.94	0.70	-8.50	46.40	MWD	Pay Zone
4/18/2014	1,285	4.80	267.40	1,284	-15	-15	-39	1.70	1.67	-4.07	48.78	MWD	Pay Zone
4/18/2014	1,315	4.80	265.37	1,314	-15	-15	-41	0.57	0.00	-6.77	51.29	MWD	Pay Zone
4/18/2014	1,345	4.53	262.51	1,343	-15	-16	-44	1.19	-0.90	-9.53	53.73	MWD	Pay Zone
4/18/2014	1,375	4.22	261.17	1,373	-16	-16	-46	1.09	-1.03	-4.47	56.01	MWD	Pay Zone
4/18/2014	1,405	3.47	264.75	1,403	-16	-16	-48	2.62	-2.50	11.93	58.02	MWD	Pay Zone
4/18/2014	1,435	3.25	265.41	1,433	-16	-16	-50	0.74	-0.73	2.20	59.78	MWD	Pay Zone
4/18/2014	1,465	3.08	260.89	1,463	-16	-17	-51	1.01	-0.57	-15.07	61.44	MWD	Pay Zone
4/19/2014	1,495	3.60	261.81	1,493	-17	-17	-53	1.74	1.73	3.07	63.19	MWD	Pay Zone

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013520790000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
50035324B	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
4/19/2014	1,525	3.56	263.79	1,523	-17	-17	-55	0.43	-0.13	6.60	65.06	MWD	Pay Zone
4/19/2014	1,545	3.69	262.92	1,543	-17	-17	-56	0.71	0.65	-4.35	66.32	MWD	Pay Zone
4/19/2014	1,577	3.87	261.30	1,575	-17	-17	-58	0.65	0.56	-5.06	68.43	MWD	Pay Zone
4/19/2014	1,761	5.42	266.55	1,758	-19	-19	-73	0.87	0.84	2.85	83.32	MWD	Weatherford
4/19/2014	1,856	5.26	264.62	1,853	-19	-20	-82	0.25	-0.17	-2.03	92.16	MWD	Weatherford
4/19/2014	1,951	5.33	259.70	1,948	-21	-21	-90	0.48	0.07	-5.18	100.92	MWD	Weatherford
4/19/2014	2,046	5.35	256.56	2,042	-22	-23	-99	0.31	0.02	-3.31	109.75	MWD	Weatherford
4/19/2014	2,141	5.60	266.55	2,137	-24	-24	-108	1.04	0.26	10.52	118.78	MWD	Weatherford
4/19/2014	2,235	5.78	264.98	2,230	-24	-25	-117	0.25	0.19	-1.67	128.10	MWD	Weatherford
4/19/2014	2,330	5.66	263.49	2,325	-25	-26	-127	0.20	-0.13	-1.57	137.57	MWD	Weatherford
4/19/2014	2,425	7.41	267.95	2,419	-26	-26	-138	1.92	1.84	4.69	148.37	MWD	Weatherford
4/19/2014	2,519	7.55	268.04	2,512	-26	-27	-150	0.15	0.15	0.10	160.61	MWD	Weatherford
4/19/2014	2,614	7.54	266.65	2,607	-27	-27	-162	0.19	-0.01	-1.46	173.08	MWD	Weatherford
4/19/2014	2,709	7.21	265.64	2,701	-28	-28	-174	0.37	-0.35	-1.06	185.28	MWD	Weatherford
4/19/2014	2,803	7.27	264.61	2,794	-29	-29	-186	0.15	0.06	-1.10	197.12	MWD	Weatherford
4/19/2014	2,898	6.99	263.62	2,888	-30	-30	-198	0.32	-0.29	-1.04	208.92	MWD	Weatherford
4/19/2014	2,993	6.85	263.18	2,983	-31	-32	-209	0.16	-0.15	-0.46	220.36	MWD	Weatherford
4/19/2014	3,088	6.75	262.32	3,077	-33	-33	-220	0.15	-0.11	-0.91	231.61	MWD	Weatherford
4/19/2014	3,183	6.59	261.48	3,171	-34	-35	-231	0.20	-0.17	-0.88	242.64	MWD	Weatherford
4/19/2014	3,278	6.26	260.38	3,266	-36	-36	-242	0.37	-0.35	-1.16	253.27	MWD	Weatherford
4/19/2014	3,372	6.03	258.73	3,359	-38	-38	-252	0.31	-0.24	-1.76	263.33	MWD	Weatherford
4/19/2014	3,467	5.72	257.83	3,454	-40	-40	-261	0.34	-0.33	-0.95	273.06	MWD	Weatherford
5/25/2014	3,562	6.11	261.27	3,548	-41	-42	-271	0.55	0.41	3.62	282.84	MWD	Weatherford
5/25/2014	3,657	5.72	261.07	3,643	-43	-43	-281	0.41	-0.41	-0.21	292.63	MWD	Weatherford
5/25/2014	3,752	5.28	257.67	3,737	-44	-45	-290	0.58	-0.46	-3.58	301.74	MWD	Weatherford
5/25/2014	3,846	5.99	260.24	3,831	-46	-47	-299	0.80	0.76	2.73	310.96	MWD	Weatherford
5/25/2014	3,941	5.63	258.34	3,925	-48	-49	-308	0.43	-0.38	-2.00	320.58	MWD	Weatherford
5/25/2014	4,036	5.46	255.06	4,020	-50	-51	-317	0.38	-0.18	-3.45	329.75	MWD	Weatherford
5/25/2014	4,131	5.97	258.93	4,114	-52	-53	-326	0.67	0.54	4.07	339.21	MWD	Weatherford
5/25/2014	4,226	6.09	263.09	4,209	-54	-54	-336	0.48	0.13	4.38	349.18	MWD	Weatherford
5/25/2014	4,321	5.50	260.34	4,303	-55	-56	-346	0.69	-0.62	-2.89	358.77	MWD	Weatherford
5/25/2014	4,416	5.17	257.81	4,398	-57	-57	-354	0.43	-0.35	-2.66	367.60	MWD	Weatherford
5/25/2014	4,510	6.36	258.04	4,491	-59	-59	-363	1.27	1.27	0.24	377.04	MWD	Weatherford
5/25/2014	4,605	6.28	255.31	4,586	-61	-62	-374	0.33	-0.08	-2.87	387.50	MWD	Weatherford
5/25/2014	4,700	5.59	250.43	4,680	-64	-65	-383	0.90	-0.73	-5.14	397.31	MWD	Weatherford
5/25/2014	4,794	6.89	259.25	4,774	-66	-67	-393	1.71	1.38	9.38	407.50	MWD	Weatherford
5/25/2014	4,888	6.55	258.20	4,867	-69	-69	-404	0.38	-0.36	-1.12	418.50	MWD	Weatherford
5/25/2014	4,983	6.07	255.76	4,962	-71	-72	-414	0.58	-0.51	-2.57	428.94	MWD	Weatherford
5/25/2014	5,078	5.44	250.59	5,056	-74	-74	-423	0.86	-0.66	-5.44	438.45	MWD	Weatherford
5/25/2014	5,172	6.36	257.36	5,150	-76	-77	-432	1.23	0.98	7.20	448.10	MWD	Weatherford
5/25/2014	5,267	7.00	267.31	5,244	-78	-78	-443	1.39	0.67	10.47	459.11	MWD	Weatherford
5/25/2014	5,362	5.48	267.95	5,338	-78	-79	-453	1.60	-1.60	0.67	469.44	MWD	Weatherford
5/25/2014	5,457	6.03	262.80	5,433	-79	-80	-463	0.79	0.58	-5.42	478.95	MWD	Weatherford
5/25/2014	5,552	6.85	262.77	5,527	-80	-81	-473	0.86	0.86	-0.03	489.61	MWD	Weatherford
5/25/2014	5,650	6.59	261.99	5,625	-82	-83	-485	0.28	-0.27	-0.80	501.08	MWD	Weatherford
5/25/2014	5,745	6.60	257.85	5,719	-83	-84	-496	0.50	0.01	-4.36	511.98	MWD	Weatherford
5/25/2014	5,839	6.21	249.93	5,812	-86	-87	-506	1.03	-0.41	-8.43	522.44	MWD	Weatherford
5/25/2014	5,933	6.21	270.19	5,906	-88	-89	-515	2.32	0.00	21.55	532.45	MWD	Weatherford
5/25/2014	6,028	5.96	267.48	6,000	-88	-89	-526	0.40	-0.26	-2.85	542.52	MWD	Weatherford
5/25/2014	6,123	5.94	262.21	6,095	-89	-90	-535	0.58	-0.02	-5.55	552.36	MWD	Weatherford
5/25/2014	6,217	6.12	257.65	6,188	-91	-92	-545	0.54	0.19	-4.85	562.22	MWD	Weatherford
5/25/2014	6,312	5.87	253.82	6,283	-93	-94	-555	0.50	-0.26	-4.03	572.14	MWD	Weatherford
5/25/2014	6,407	5.69	246.26	6,377	-96	-98	-564	0.82	-0.19	-7.96	581.69	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
4301352079 0000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
5/25/2014	6,501	6.27	253.25	6,471	-100	-101	-573	0.99	0.62	7.44	591.46	MWD	Weatherford
5/25/2014	6,596	6.50	264.73	6,565	-102	-103	-583	1.36	0.24	12.08	601.97	MWD	Weatherford
5/25/2014	6,691	5.93	261.91	6,660	-103	-104	-593	0.68	-0.60	-2.97	612.25	MWD	Weatherford
5/25/2014	6,786	5.84	255.94	6,754	-105	-106	-603	0.65	-0.09	-6.28	621.98	MWD	Weatherford
5/25/2014	6,881	5.38	265.90	6,849	-106	-107	-612	1.13	-0.48	10.48	631.23	MWD	Weatherford
5/25/2014	6,976	4.88	261.66	6,943	-107	-108	-620	0.66	-0.53	-4.46	639.72	MWD	Weatherford
5/25/2014	7,070	5.88	263.96	7,037	-108	-109	-629	1.09	1.06	2.45	648.53	MWD	Weatherford
5/25/2014	7,165	5.21	257.12	7,131	-110	-111	-638	0.99	-0.71	-7.20	657.70	MWD	Weatherford
5/25/2014	7,260	4.56	250.19	7,226	-112	-113	-646	0.92	-0.68	-7.29	665.77	MWD	Weatherford
5/25/2014	7,355	4.45	256.02	7,321	-114	-115	-653	0.50	-0.12	6.14	673.23	MWD	Weatherford
5/25/2014	7,450	6.02	259.26	7,415	-116	-117	-662	1.68	1.65	3.41	681.89	MWD	Weatherford
5/25/2014	7,545	5.42	257.39	7,510	-118	-119	-671	0.66	-0.63	-1.97	691.36	MWD	Weatherford
5/25/2014	7,640	5.86	262.42	7,604	-119	-121	-680	0.70	0.46	5.29	700.68	MWD	Weatherford
5/25/2014	7,735	6.15	265.37	7,699	-120	-122	-690	0.45	0.31	3.11	710.62	MWD	Weatherford
5/25/2014	7,830	7.13	275.84	7,793	-120	-122	-701	1.64	1.03	11.02	721.56	MWD	Weatherford
5/25/2014	7,924	9.55	293.90	7,886	-116	-118	-714	3.76	2.57	19.21	735.03	MWD	Weatherford
5/25/2014	8,019	12.59	307.27	7,980	-107	-108	-729	4.17	3.20	14.07	753.15	MWD	Weatherford
5/25/2014	8,114	14.78	321.74	8,072	-91	-93	-745	4.26	2.31	15.23	775.45	MWD	Weatherford
5/25/2014	8,168	14.63	328.84	8,124	-80	-81	-753	3.35	-0.28	13.15	789.13	MWD	Weatherford
5/25/2014	8,209	14.50	328.22	8,164	-71	-72	-758	0.50	-0.32	-1.51	799.44	MWD	Weatherford
5/25/2014	8,303	17.29	339.04	8,254	-48	-49	-769	4.32	2.97	11.51	825.08	MWD	Weatherford
5/25/2014	8,368	18.64	350.22	8,316	-29	-30	-775	5.69	2.08	17.20	845.04	MWD	Weatherford
7/7/2014	8,503	18.97	0.59	8,444	15	13	-778	2.49	0.24	-258.99	888.39	MWD	Weatherford
7/7/2014	8,535	21.29	5.26	8,474	26	24	-778	8.81	7.25	14.59	899.39	MWD	Weatherford
7/7/2014	8,566	23.21	7.43	8,503	37	36	-776	6.74	6.19	7.00	911.13	MWD	Weatherford
7/7/2014	8,598	24.95	8.10	8,532	50	49	-774	5.50	5.44	2.09	924.18	MWD	Weatherford
7/7/2014	8,630	27.91	8.00	8,561	64	63	-772	9.25	9.25	-0.31	938.42	MWD	Weatherford
7/7/2014	8,661	31.41	7.68	8,587	79	78	-770	11.30	11.29	-1.03	953.76	MWD	Weatherford
7/7/2014	8,691	34.44	7.90	8,613	96	94	-768	10.11	10.10	0.73	970.07	MWD	Weatherford
7/7/2014	8,725	38.04	8.01	8,640	115	114	-765	10.59	10.59	0.32	990.16	MWD	Weatherford
7/8/2014	8,756	41.60	7.29	8,664	135	134	-763	11.58	11.48	-2.32	1,010.01	MWD	Weatherford
7/8/2014	8,786	44.65	5.99	8,686	156	154	-760	10.59	10.17	-4.33	1,030.52	MWD	Weatherford
7/8/2014	8,820	47.90	5.18	8,709	180	178	-758	9.71	9.56	-2.38	1,055.08	MWD	Weatherford
7/8/2014	8,851	51.15	5.36	8,729	203	202	-756	10.49	10.48	0.58	1,078.66	MWD	Weatherford
7/8/2014	8,881	54.65	5.62	8,747	227	226	-754	11.69	11.67	0.87	1,102.59	MWD	Weatherford
7/8/2014	8,914	58.18	5.38	8,766	255	253	-751	10.71	10.70	-0.73	1,130.07	MWD	Weatherford
7/8/2014	8,946	61.31	4.51	8,782	282	281	-748	10.06	9.78	-2.72	1,157.71	MWD	Weatherford
7/8/2014	8,976	64.79	3.70	8,795	309	307	-747	11.85	11.60	-2.70	1,184.45	MWD	Weatherford
7/8/2014	9,009	68.54	2.97	8,809	339	338	-745	11.54	11.36	-2.21	1,214.74	MWD	Weatherford
7/8/2014	9,041	72.07	2.11	8,819	369	368	-743	11.32	11.03	-2.69	1,244.87	MWD	Weatherford
7/8/2014	9,071	75.28	1.13	8,828	398	396	-743	11.15	10.70	-3.27	1,273.65	MWD	Weatherford
7/8/2014	9,104	78.28	0.08	8,835	430	429	-742	9.60	9.09	-3.18	1,305.77	MWD	Weatherford
7/8/2014	9,136	81.90	359.15	8,841	462	460	-743	11.67	11.31	1122.09	1,337.29	MWD	Weatherford
7/8/2014	9,167	85.62	0.04	8,844	492	491	-743	12.33	12.00	-1158.42	1,368.10	MWD	Weatherford
7/8/2014	9,199	87.53	0.62	8,846	524	523	-743	6.24	5.97	1.81	1,400.04	MWD	Weatherford
7/8/2014	9,262	86.92	0.24	8,849	587	586	-742	1.14	-0.97	-0.60	1,462.97	MWD	Weatherford
7/8/2014	9,357	89.69	0.89	8,852	682	681	-741	2.99	2.92	0.68	1,557.92	MWD	Weatherford
7/9/2014	9,452	85.74	359.07	8,856	777	776	-741	4.58	-4.16	377.03	1,652.82	MWD	Weatherford
7/9/2014	9,547	87.60	0.17	8,861	872	870	-742	2.27	1.96	-377.79	1,747.65	MWD	Weatherford
7/9/2014	9,641	87.04	359.36	8,866	966	964	-742	1.05	-0.60	382.12	1,841.55	MWD	Weatherford
7/9/2014	9,736	86.05	354.85	8,871	1,060	1,059	-747	4.85	-1.04	-4.75	1,936.35	MWD	Weatherford
7/9/2014	9,831	85.81	354.42	8,878	1,155	1,153	-756	0.52	-0.25	-0.45	2,031.11	MWD	Weatherford
7/9/2014	9,926	84.56	355.18	8,886	1,249	1,248	-764	1.54	-1.32	0.80	2,125.77	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name			
Ute Tribal 13-9-4-3-2WH	Original Hole			
API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013520790000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal
Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
7/9/2014	10,021	87.97	358.36	8,892	1,344	1,342	-770	4.90	3.59	3.35	2,220.54	MWD	Weatherford
7/9/2014	10,115	85.25	356.51	8,898	1,438	1,436	-774	3.50	-2.89	-1.97	2,314.37	MWD	Weatherford
7/10/2014	10,210	87.16	358.97	8,904	1,532	1,531	-778	3.27	2.01	2.59	2,409.15	MWD	Weatherford
7/10/2014	10,305	87.04	359.03	8,909	1,627	1,626	-779	0.14	-0.13	0.06	2,504.02	MWD	Weatherford
7/10/2014	10,400	87.16	0.39	8,914	1,722	1,720	-780	1.44	0.13	-377.52	2,598.90	MWD	Weatherford
7/10/2014	10,495	87.35	354.18	8,918	1,817	1,815	-784	6.53	0.20	372.41	2,693.74	MWD	Weatherford
7/10/2014	10,589	87.04	352.81	8,923	1,910	1,908	-795	1.49	-0.33	-1.46	2,787.63	MWD	Weatherford
7/10/2014	10,684	86.05	352.50	8,929	2,004	2,002	-807	1.09	-1.04	-0.33	2,882.46	MWD	Weatherford
7/10/2014	10,779	84.18	0.34	8,937	2,098	2,097	-813	8.45	-1.97	-370.69	2,977.03	MWD	Weatherford
7/10/2014	10,874	88.27	5.98	8,943	2,193	2,191	-808	7.32	4.31	5.94	3,071.77	MWD	Weatherford
7/10/2014	10,969	87.78	5.34	8,946	2,288	2,286	-798	0.85	-0.52	-0.67	3,166.71	MWD	Weatherford
7/10/2014	11,063	88.34	6.34	8,949	2,381	2,379	-789	1.22	0.60	1.06	3,260.65	MWD	Weatherford
7/11/2014	11,158	88.64	6.99	8,952	2,475	2,474	-778	0.75	0.32	0.68	3,355.62	MWD	Weatherford
7/11/2014	11,253	87.41	2.89	8,955	2,570	2,568	-770	4.50	-1.29	-4.32	3,450.54	MWD	Weatherford
7/11/2014	11,348	87.84	0.07	8,959	2,665	2,663	-767	3.00	0.45	-2.97	3,545.45	MWD	Weatherford
7/11/2014	11,443	87.62	358.04	8,963	2,760	2,758	-769	2.15	-0.23	376.81	3,640.37	MWD	Weatherford
7/11/2014	11,538	87.28	356.30	8,967	2,854	2,853	-773	1.86	-0.36	-1.83	3,735.27	MWD	Weatherford
7/11/2014	11,633	88.33	0.34	8,971	2,949	2,948	-776	4.39	1.11	-374.69	3,830.18	MWD	Weatherford
7/11/2014	11,727	86.92	359.43	8,975	3,043	3,042	-776	1.78	-1.50	382.01	3,924.10	MWD	Weatherford
7/11/2014	11,822	88.83	359.94	8,978	3,138	3,137	-777	2.08	2.01	0.54	4,019.03	MWD	Weatherford
7/11/2014	11,917	88.09	358.80	8,981	3,233	3,232	-778	1.43	-0.78	-1.20	4,113.99	MWD	Weatherford
7/11/2014	12,012	85.50	355.58	8,986	3,328	3,326	-783	4.35	-2.73	-3.39	4,208.82	MWD	Weatherford
7/11/2014	12,107	87.53	0.65	8,992	3,423	3,421	-786	5.74	2.14	-373.61	4,303.61	MWD	Weatherford
7/11/2014	12,202	86.36	0.04	8,997	3,517	3,516	-785	1.39	-1.23	-0.64	4,398.47	MWD	Weatherford
7/11/2014	12,296	86.42	4.10	9,003	3,611	3,610	-782	4.31	0.06	4.32	4,492.27	MWD	Weatherford
7/12/2014	12,391	86.61	5.64	9,009	3,706	3,704	-774	1.63	0.20	1.62	4,587.09	MWD	Weatherford
7/12/2014	12,486	88.77	5.22	9,012	3,800	3,799	-765	2.32	2.27	-0.44	4,682.01	MWD	Weatherford
7/12/2014	12,581	85.87	355.71	9,017	3,895	3,893	-764	10.45	-3.05	368.94	4,776.78	MWD	Weatherford
7/12/2014	12,676	87.62	358.04	9,022	3,990	3,988	-769	3.06	1.84	2.45	4,871.62	MWD	Weatherford
7/12/2014	12,770	85.49	356.13	9,028	4,083	4,082	-774	3.04	-2.27	-2.03	4,965.44	MWD	Weatherford
7/12/2014	12,865	86.79	359.25	9,034	4,178	4,176	-778	3.55	1.37	3.28	5,060.21	MWD	Weatherford
7/12/2014	12,960	85.95	356.46	9,040	4,273	4,271	-781	3.06	-0.88	-2.94	5,155.01	MWD	Weatherford
7/12/2014	13,055	87.60	357.69	9,046	4,367	4,366	-786	2.17	1.74	1.29	5,249.85	MWD	Weatherford
7/12/2014	13,150	85.37	350.17	9,051	4,462	4,460	-796	8.24	-2.35	-7.92	5,344.60	MWD	Weatherford
7/12/2014	13,245	87.29	353.85	9,058	4,556	4,554	-809	4.36	2.02	3.87	5,439.38	MWD	Weatherford
7/13/2014	13,339	87.97	353.72	9,061	4,649	4,647	-819	0.74	0.72	-0.14	5,533.30	MWD	Weatherford
7/13/2014	13,434	87.41	356.92	9,065	4,744	4,742	-827	3.42	-0.59	3.37	5,628.21	MWD	Weatherford
7/13/2014	13,529	85.74	358.44	9,071	4,838	4,837	-831	2.38	-1.76	1.60	5,723.04	MWD	Weatherford
7/13/2014	13,624	87.60	0.04	9,076	4,933	4,931	-832	2.58	1.96	-377.26	5,817.87	MWD	Weatherford
7/13/2014	13,718	86.79	357.92	9,081	5,027	5,025	-834	2.41	-0.86	380.72	5,911.75	MWD	Weatherford
7/13/2014	13,813	86.73	358.99	9,086	5,122	5,120	-837	1.13	-0.06	1.13	6,006.60	MWD	Weatherford
7/13/2014	13,908	86.48	359.29	9,092	5,217	5,215	-838	0.41	-0.26	0.32	6,101.43	MWD	Weatherford
7/13/2014	14,003	86.42	0.18	9,098	5,311	5,310	-838	0.94	-0.06	-378.01	6,196.25	MWD	Weatherford
7/13/2014	14,097	86.92	0.46	9,103	5,405	5,404	-838	0.61	0.53	0.30	6,290.09	MWD	Weatherford
7/13/2014	14,192	87.53	359.86	9,108	5,500	5,499	-838	0.90	0.64	378.32	6,384.98	MWD	Weatherford
7/13/2014	14,287	87.47	359.54	9,112	5,595	5,593	-838	0.34	-0.06	-0.34	6,479.89	MWD	Weatherford
7/13/2014	14,382	87.47	0.63	9,116	5,690	5,688	-838	1.15	0.00	-377.80	6,574.79	MWD	Weatherford
7/14/2014	14,476	87.35	0.51	9,121	5,784	5,782	-837	0.18	-0.13	-0.13	6,668.70	MWD	Weatherford
7/14/2014	14,571	85.77	358.75	9,126	5,879	5,877	-838	2.49	-1.66	377.09	6,763.52	MWD	Weatherford
7/14/2014	14,666	86.05	356.86	9,133	5,973	5,972	-841	2.01	0.29	-1.99	6,858.27	MWD	Weatherford
7/14/2014	14,761	86.79	357.60	9,139	6,068	6,066	-846	1.10	0.78	0.78	6,953.08	MWD	Weatherford
7/14/2014	14,856	86.17	356.41	9,145	6,163	6,161	-851	1.41	-0.65	-1.25	7,047.90	MWD	Weatherford
7/14/2014	14,950	87.53	356.54	9,150	6,256	6,255	-857	1.45	1.45	0.14	7,141.76	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
4301352079 0000	NENW 276FNL 1452FWL Sec16 T3S R2W MerU	UINTA CB - UTELAND BUTTE	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353248	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
7/14/2014	15,045	87.47	358.99	9,154	6,351	6,350	-860	2.58	-0.06	2.58	7,236.66	MWD	Weatherford
7/14/2014	15,140	87.16	2.60	9,159	6,446	6,445	-859	3.81	-0.33	-375.15	7,331.54	MWD	Weatherford
7/15/2014	15,235	87.90	3.51	9,163	6,541	6,539	-854	1.23	0.78	0.96	7,426.45	MWD	Weatherford
7/15/2014	15,330	87.10	2.82	9,167	6,636	6,634	-849	1.11	-0.84	-0.73	7,521.36	MWD	Weatherford
7/15/2014	15,424	87.04	1.12	9,172	6,730	6,728	-845	1.81	-0.06	-1.81	7,615.23	MWD	Weatherford
7/15/2014	15,519	87.41	0.42	9,176	6,824	6,823	-844	0.83	0.39	-0.74	7,710.12	MWD	Weatherford
7/15/2014	15,614	88.02	1.21	9,180	6,919	6,918	-843	1.05	0.64	0.83	7,805.04	MWD	Weatherford
7/15/2014	15,708	87.72	359.25	9,184	7,013	7,012	-842	2.11	-0.32	380.89	7,898.97	MWD	Weatherford
7/15/2014	15,803	87.72	356.87	9,187	7,108	7,106	-846	2.50	0.00	-2.51	7,993.89	MWD	Weatherford
7/15/2014	15,898	88.64	357.15	9,190	7,203	7,201	-851	1.01	0.97	0.29	8,088.84	MWD	Weatherford
7/15/2014	15,992	87.66	356.92	9,193	7,297	7,295	-855	1.07	-1.04	-0.24	8,182.79	MWD	Weatherford
7/15/2014	16,087	87.18	357.52	9,198	7,392	7,390	-860	0.81	-0.51	0.63	8,277.70	MWD	Weatherford
7/16/2014	16,182	86.55	358.50	9,203	7,486	7,485	-863	1.23	-0.66	1.03	8,372.55	MWD	Weatherford
7/16/2014	16,277	85.99	359.07	9,209	7,581	7,579	-865	0.84	-0.59	0.60	8,467.35	MWD	Weatherford
7/16/2014	16,372	86.36	359.44	9,215	7,676	7,674	-867	0.55	0.39	0.39	8,562.14	MWD	Weatherford
7/16/2014	16,467	87.47	359.87	9,220	7,771	7,769	-867	1.25	1.17	0.45	8,657.00	MWD	Weatherford
7/16/2014	16,561	87.78	358.41	9,224	7,865	7,863	-869	1.59	0.33	-1.55	8,750.92	MWD	Weatherford
7/16/2014	16,656	86.54	356.87	9,229	7,960	7,958	-873	2.08	-1.31	-1.62	8,845.79	MWD	Weatherford
7/16/2014	16,751	86.42	356.92	9,235	8,054	8,052	-878	0.14	-0.13	0.05	8,940.61	MWD	Weatherford
7/16/2014	16,846	86.92	357.70	9,240	8,149	8,147	-882	0.97	0.53	0.82	9,035.45	MWD	Weatherford
7/16/2014	16,941	86.79	356.49	9,246	8,244	8,242	-887	1.28	-0.14	-1.27	9,130.31	MWD	Weatherford
7/16/2014	17,035	87.72	356.81	9,250	8,337	8,336	-892	1.05	0.99	0.34	9,224.20	MWD	Weatherford
7/16/2014	17,130	86.98	357.48	9,255	8,432	8,430	-897	1.05	-0.78	0.71	9,319.10	MWD	Weatherford
7/16/2014	17,225	87.84	358.83	9,259	8,527	8,525	-900	1.68	0.91	1.42	9,414.00	MWD	Weatherford
7/17/2014	17,320	88.58	1.71	9,262	8,622	8,620	-900	3.13	0.78	-375.92	9,508.94	MWD	Weatherford
7/17/2014	17,415	88.77	4.41	9,264	8,717	8,715	-895	2.85	0.20	2.84	9,603.91	MWD	Weatherford
7/17/2014	17,509	87.71	2.98	9,267	8,811	8,809	-889	1.89	-1.13	-1.52	9,697.86	MWD	Weatherford
7/17/2014	17,604	88.89	4.07	9,270	8,905	8,904	-883	1.69	1.24	1.15	9,792.81	MWD	Weatherford
7/17/2014	17,699	90.06	2.08	9,271	9,000	8,998	-878	2.43	1.23	-2.09	9,887.80	MWD	Weatherford
7/18/2014	17,794	85.37	356.64	9,274	9,095	9,093	-879	7.56	-4.94	373.22	9,982.66	MWD	Weatherford
7/18/2014	17,889	87.16	354.15	9,281	9,190	9,188	-886	3.22	1.88	-2.62	10,077.45	MWD	Weatherford
7/18/2014	17,984	85.95	353.28	9,286	9,284	9,282	-897	1.57	-1.27	-0.92	10,172.28	MWD	Weatherford
7/18/2014	18,079	85.62	355.21	9,293	9,378	9,376	-906	2.06	-0.35	2.03	10,267.01	MWD	Weatherford
7/18/2014	18,173	85.68	354.82	9,300	9,471	9,470	-914	0.42	0.06	-0.41	10,360.74	MWD	Weatherford
7/18/2014	18,268	87.10	357.41	9,306	9,566	9,564	-921	3.10	1.49	2.73	10,455.54	MWD	Weatherford
7/19/2014	18,363	87.41	359.13	9,311	9,661	9,659	-924	1.84	0.33	1.81	10,550.43	MWD	Weatherford
7/19/2014	18,458	87.04	359.92	9,315	9,756	9,754	-924	0.92	-0.39	0.83	10,645.32	MWD	Weatherford
7/19/2014	18,553	86.48	0.29	9,321	9,851	9,849	-924	0.71	-0.59	-378.56	10,740.17	MWD	Weatherford
7/19/2014	18,647	87.60	1.05	9,326	9,945	9,943	-923	1.44	1.19	0.81	10,834.04	MWD	Weatherford
7/20/2014	18,690	88.27	1.47	9,327	9,988	9,986	-922	1.84	1.56	0.98	10,877.01	MWD	Weatherford
7/20/2014	18,743	88.95	1.48	9,329	10,040	10,039	-921	1.28	1.28	0.02	10,930.00	MWD	Weatherford
7/20/2014	18,933	85.31	359.72	9,338	10,230	10,228	-919	2.13	-1.92	188.55	11,119.72	MWD	Weatherford

NEWFIELD

Directional Survey

Legal Well Name	Wellbore Name
Ute Tribal 13-9-4-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
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Well RC	County	State/Province	Spud Date	Final Rig Release Date
50035324B	Duchesne	Utah	5/24/2014 08:00	7/28/2014 18:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
7/20/2014	19,027	84.87	359.86	9,346	10,324	10,322	-919	0.49	-0.47	0.15	11,213.37	MWD	Weatherford
7/20/2014	19,122	84.38	359.76	9,355	10,418	10,417	-920	0.53	-0.52	-0.11	11,307.95	MWD	Weatherford
7/20/2014	19,216	83.64	359.75	9,365	10,512	10,510	-920	0.79	-0.79	-0.01	11,401.44	MWD	Weatherford
7/20/2014	19,265	83.39	359.69	9,370	10,561	10,559	-920	0.52	-0.51	-0.12	11,450.13	MWD	Weatherford
7/20/2014	19,310	83.39	359.69	9,376	10,605	10,603	-920	0.00	0.00	0.00	11,494.83	Extrap.	Weatherford
7/20/2014	188,838	87.54	0.69	22,777	179,561	179,561	-356	0.00	0.00	-0.21	180,452.96	MWD	Weatherford

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/8/2014	8/9/2014	RU Halliburton acid crew to open toe sleeves . install DFIT gauges . Pressure test 5 ½ 20# casing to 7000 psi. hold for 30 min. pressure well to 8321 psi to fire toe sleeves. Pressure well to 9000psi record break in well. then shut in well Plan Forward: DFIT for 3days.

Start Time	End Time	Comment
08:16	15:00	RU Halliburton acid crew to open toe sleeves . install DFIT gauges . Pressure test 5 ½ 20# casing to 7000 psi. hold for 30 min. pressure well to 8321 psi to fire toe sleeves. Pressure well to 9000psi record break in well. then shut in well Plan Forward: DFIT for 3days.
15:00	00:00	Monitor DFIT gauges.

Report Start Date	Report End Date	24hr Activity Summary
8/9/2014	8/10/2014	Monitor DFIT Gauges

Start Time	End Time	Comment
00:00	00:00	Monitor DFIT Gauges

Report Start Date	Report End Date	24hr Activity Summary
8/10/2014	8/11/2014	Monitor DFIT Gauges

Start Time	End Time	Comment
00:00	00:00	Monitor DFIT Gauges

Report Start Date	Report End Date	24hr Activity Summary
8/11/2014	8/12/2014	Monitor DFIT gauges

Start Time	End Time	Comment
00:00	00:00	Monitor DFIT gauges, prepare to run CAST-M log.

Report Start Date	Report End Date	24hr Activity Summary
8/12/2014	8/13/2014	Running Halliburton CAST-M logs, spot frac equipmentt

Start Time	End Time	Comment
00:00	07:00	Wait for Halliburton Wireline crew
07:00	12:00	Spot crane and wireline equipment. RU 10k Lubricator . test Lube RIH w/ CAST-M tools.
12:00	16:00	RU Halliburton Pumps RU hard line test hard line to 10K . start RIH w/ Cast M logging tools . FMC NU ball catchers so we can hook up flow back. test ball catcher & Flow back line.
16:00	22:00	RIH w/ 4.54 gauge ring to KOP @8430' Halliburton pumping down gauge ring @6800 psi 14.4 bbls min wireline 76 ft min w/ 800lbs tension run down the casing to 19100'. POOH w/ 4.54 gauge tool .
22:00	00:00	MU logging tools PU 10K lubricator. w/4.35 CAST-M logging tool as crane was picking lube and tools the wireline snapped allowing tool to fall to ground stabbing in ground top part of tool was in lubricator. SD operation for the night. will resume at 6:00 am.

Report Start Date	Report End Date	24hr Activity Summary
8/13/2014	8/14/2014	Running Halliburton CAST-M logs, spot frac equipmentt

Start Time	End Time	Comment
00:00	06:00	
06:00	14:00	PU 10K lubricator w/ 4.35 CAST-M logging tool Test lubricator to 10K. Had trouble getting tool to go IH. Tried working up and down, pressured up to 3500 psi, finally bled well off. RIH to 200' with logging tool. Checked tool before proceeding IH, not working right. POOH. LD tool to inspect. Changed out telemetry tool, checked computer, found problem in software. RIH to 200' and calibrate tool. RIH w/ CBL, CAST-M logging tool to KOP @8430'.Pump down logging tool at 7125 psi 12.4 bbls/min , 105 fpm, LTEN 615. Max depth 19,020'. Ttl water 1190 bbl.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
14:00	20:00	Run CAST-M log from 19020' to KOPat 8420'. At 20:00 Halliburton logging pulled off tghe well with the lubricator. Halliburton will RD and move over to the next well.
20:00	00:00	Well is shut in and secure SDFN.

Report Start Date	Report End Date	24hr Activity Summary
8/14/2014	8/15/2014	Well is is secure waiting on frac and logging operations to get done on the UT 14-9-4-3-2WH well

Start Time	End Time	Comment
00:00	06:00	Well is secure and shut in SDFN
06:00	00:00	Well SI. Logging 14-9-4-3-2.

Report Start Date	Report End Date	24hr Activity Summary
8/15/2014	8/16/2014	Pumped stg #1, P&P stg #2

Start Time	End Time	Comment
00:00	06:00	Still RU FMC frac manifold and FMC iron to the wellhead. Halliburton is also in the process of spotting frac equipment and RU. J-W Wireline is on location spotting in and RU.
06:00	15:00	RU frac equipment, WL equipment, and FB iron. Pressure test all iron to Newfield's standard.
15:00	17:00	Pump stage 1 frac as designed. No pressure issues.
17:00	17:30	Test lubricator per Newfield standards. RIH to 200'. Check guns, not reading.
17:30	00:00	POOH with WL to change out guns. Wireline figired out the were having electronic problems inside their truck. After multiple issuses with wireline and the pump down trucks we finsihed P&P on stg#2 at 23:30 and are POOH with guns. RIH with guns and Plug to KOP. pumped down guns at 14.6 bpm @ 7200 Psi, @ 182 fpm, 892 LT, pumped guns to 19,025, Pulled up and got line tension and set plug. Line tension prior to setting plug 1930, line tension after plug set 1720, plug set time 33sec. Pulled up and perf'ed at 18,975'-979', 18,781'-785'. POOH with tools, max pressure for pump down: 7200, Max rate for pump down- 14.6bpm. Total BBls pumped- 787.5

Report Start Date	Report End Date	24hr Activity Summary
8/16/2014	8/17/2014	P&P stages 3,4 & 5. Frac Stages 2,3 & 4

Start Time	End Time	Comment
00:00	01:30	Conitnue to POOH logging 200' past the short joint at 8451' to get a good collar log with guns and get ready to frac stg #2.
01:30	03:30	Waiting on wireline to get the issues figured out on the 14-9. it took 2 hours for wireline to get their grease head and pack off figured out to get in the well on the 14-9
03:30	05:00	Started Frac stg #2 @ 03:30. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10 cups of CFT1100 3. Operator swapped injection points during stage for CL-31 to keep fluid from crosslinking in the blender tub. 4. Rate fell off during 4#. Blender operator thought tub still looked thick and started to crosslink in the tub. High visc on tub made it harder on blender suction pump. Problem went away once we staged in to flush and rate came back up. Will move injection port on buffer after stage too to address issue. *WG-36-3.8% (47.6), FR-66-11% (1.9),BA* -20-12.2% (3.2), CL-31-24.4% (2.9) MC S-2010T-5.4% (3.3) Vicon NF-4.3% (6), Losurf 300D-4.6% (5.5) Cat 3/4-6.8% (1.8), BE-9-6% (2.2)

Start Time	End Time	Comment
05:00	08:30	Plug and Perf: Stage #3 RIH with guns and plug to KOP. pumped down guns at 12.1 bpm @ 5810 psi at 219 fpm, 735 LTEN, pumped guns to 18,766'. Pulled up and got line tension and set plug at 18,730'. Line tension prior to setting plug 1938, line tension after plug set 1780, plug set time 1 minute. Perf at 18,671'-675', 18620' –624'. POOH with tools. Max pressure 5938 psi. Max rate 12.1bpm. Pumped 509.5 bbl water. All shots fired. All tools recovered.
08:30	10:30	Repair frac pumps.
10:30	12:30	Frac stage 3. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water. 2. Protechnics pumped 11 cups of CFT1000 3. Had change in water quality during job, color and smell, lowered Xlink pH and delayed Xlink. Increased CI-31 and MO-67 to bring up Xlink pH. Continued to have low Xlink pH and delayed Xlink to end of job. 4. Had steady pressure increase during flush with 3.0ppg and pressure turned when 4.0ppg reached bottom. 5. Worked rate down to 25bpm before pressure rolled over. Able to flush well and place job completely. 6. Overall good job by crew working through issues. Ball Seat Stage Pressures and Rate: 6000 psi @ 16.1 bpm , 5770 psi Pressure before Seating , 6005 psi Pressure after Seating WG-36-4.5% (60.5), BC-200-3.2% (3.3), MC S-2010T-3.4% (1.9) Vicon NF-4.3% (6.4), Losurf 300D-4.5% (5.2) Cat 3/4-4.5% (1.3), BE-9-3.4% (1.2)
12:30	16:00	Plug and Perf: Stage #4 RIH with guns and plug to KOP. pumped down guns at 12.8 bpm @ 6740 psi at 225 fpm, 740 LTEN, pumped guns to 18,557'. Pulled up and got line tension and set plug at 18,512'. Line tension prior to setting plug 1660, line tension after plug set 1560, plug set time 1:05 minute. Perf at 18,413'-417', 18324' –328'. Max pressure 6855 psi. Max rate 12.8 bpm. Pumped 484 bbl water. POOH. All shots fired. All tools recovered.
16:00	21:00	Frac stg #4. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 16.5 cups of CFT1000 3. Had to shut down in pad for leak on CL-31 line. Couldn't get crosslink. Once fixed, came back online and got a good crosslink, and staged in to 100 mesh. Then BC-200 crosslinker went out due to transfer pump issue. Cut sand and flushed the 100 mesh. 4. Once 100 mesh was displaced, dropped rate and tried to get BC-200 going again. Ran in to issues getting crosslink again, so we shut down to troubleshoot fluids. WG-36-7.3% (156.4), BC-200-7.8% (13), BA-20-5.5% (1.9), CL-31-34.2% (7.1) MO-67-7.8% (3.6), MC S-2010T-9.2% (7.1) Vicon NF-11.8% (25.9), Losurf 300D-12.4% (19.1) Cat 3/4-8.4% (4.1), BE-9-9.2% (4.2)
21:00	00:00	Plug and Perf: Stage #5 RIH with guns and plug to KOP. pumped down guns at 15 bpm @ 6000 psi at 236 fpm, 980 LTEN, pumped guns to 18,275'. Pulled up and got line tension and set plug at 18,236.5'. Line tension prior to setting plug 1590, line tension after plug set 1443, plug set time 51 sec. Perf at 18,050'-054', 17,938' –942'. POOH with tools. Max pressure 6000 psi. Max rate 15.1 bpm. Pumped 518 bbl water. Currently POOH with WL.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/17/2014	8/18/2014	P&P stgs 6,7 &8. Frac stgs 6,7 &8

Start Time	End Time	Comment
00:00	01:00	Finish POOH with wireline from perfing stg #5
01:00	02:30	Frac stg #5. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10 cups of CFT4800. Ball Seat Stage Pressures and Rate: 5479 psi @ 15.1 bpm , 5297 psi Pressure before Seating , 5506 psi Pressure after Seating. WG-36-6.1% (79.9), BC-200-3.5% (3.6), MO-67-6% (1.9), MC S-2010T-5.7% (2.5) Vicon NF-2.6% (3.8), Cat 3/4-5.3% (1.5), BE-9-8.5% (2.3)
02:30	05:00	P&P stg #6 RIH with guns and plug to KOP. pumped down guns at 14 bpm @ 5820 psi at 225 fpm, 942 LTEN, pumped guns to 17,878'. Pulled up and got line tension and set plug at 17,832.5'. Line tension prior to setting plug 1530, line tension after plug set 1358, plug set time 72 sec. Perf at 17,791'-795', 17,719' –723'. POOH with tools. Max pressure 5820 psi. Max rate 14 bpm. Pumped 520 bbl water. Currently POOH with WL.
05:00	07:00	Frac stg 6. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10 cups of CFT4800 3. Good job with no problems. Ball Seat Stage Pressures and Rate: 5625 psi @ 15.2 bpm , 5379 psi Pressure before Seating , 5658 psi Pressure after Seating. FR-66-5.9% (1), CL-31-9.8% (1.3) MO-67-3.6% (1.1), Scalesorb 7-7% (7.5), MC S-2010T-9.6% (4) Vicon NF-4.9% (6.5),
07:00	09:30	P&P stg #7 RIH with guns and plug to KOP. pumped down guns at 12 bpm @ 5440 psi at 262 fpm, 873 LTEN, pumped guns to 17,650'. Pulled up and got line tension and set plug at 17,650'. Line tension prior to setting plug 1520, line tension after plug set 1330, plug set time 52 sec. Perf at 17,601'-605', 17,530' –534'.17,520-524. POOH with tools. Max pressure 5440 psi. Max rate 12 bpm. Pumped 458 bbl water. All shots fired. All tools recovered.
09:30	12:00	Frac stg #7. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 12.5 cups of CFT4000 3. Extra set of perfs, 36 total, no have indication top set of perfs fired in WL van, shot spare guns. Verified all shots fired on surface. 4. Good job with no issues, placed job completely. Ball Seat Stage Pressures and Rate: 5550 psi @ 15.1 bpm , 5310 psi Pressure before Seating , 5555 psi Pressure after Seating BC-200-3.5% (3.2), MO-67-4.9% (1.6), Vicon NF-4.4% (5.7), Losurf 300D-3.7% (3)
12:00	13:30	Grease frac valves.
13:30	18:30	When WL operator went to truck after greasing valve, he found the drum brake was not set. The drum had slowly unspooled line, bird nesting it around drum.
18:30	22:00	P&P stg #8 RIH with guns and plug to KOP. pumped down guns at 13 bpm @ 6100 psi at 245 fpm, 709 LTEN, pumped guns to 17,476'. Pulled up and got line tension and set plug at 17,457.5'. Line tension prior to setting plug 1616, line tension after plug set 1434, plug set time 60 sec. Perf at 17,412'-416', 17,358' –362'. POOH with tools. Max pressure 6100 psi. Max rate 13 bpm. Pumped 413 bbl water. Currently POOH with WL.

Start Time	End Time	Comment
22:00	00:00	Frac stg #8 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10.5 cups of CFT4800. Ball Seat Stage Pressures and Rate: 5664 psi @ 15.4 bpm , 5599 psi Pressure before Seating , 5671 psi Pressure after Seating. WG-36-2.4% (24.9), BC-200-2.6% (2.4), CL-31-8% (1.1)MO-67-8% (2.6), MC S-2010T-3.9% (1.6) Vicon NF-4.8% (6.4), Losurf 300D-2.1% (1.8) Cat 3/4-5% (1.3), BE-9-8.1% (2)

Report Start Date	Report End Date	24hr Activity Summary
8/18/2014	8/19/2014	P&P stgs 9,10,11,12 & 13. Frac stgs 9,10,11 & 12

Start Time	End Time	Comment
00:00	03:00	P&P stg #9 RIH with guns and plug to KOP. pumped down guns at 13 bpm @ 6090 psi at 241 fpm, 784 LTEN, pumped guns to 17,273'. Pulled up and got line tension and set plug at 17,262.5'. Line tension prior to setting plug 1720, line tension after plug set 1480, plug set time 81 sec. Perf at 17,249'-253', 17,169' –173'. POOH with tools. Max pressure 6090 psi. Max rate 13 bpm. Pumped 396 bbl water. Currently POOH with WL.
03:00	05:30	Frac stg #9 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10 cups of CFT1200 3. Crosslink samples in bath got accidentally knocked over. Only break time for pad was obtained. Ball Seat Stage Pressures and Rate: 5705 psi @ 15.2 bpm , 5543 psi Pressure before Seating , 5723 psi Pressure after Seating. WG-36-4.4% (49.8), FR-66-6.8% (1.1), CL-31-9.6% (1.3) MC S-2010T-4.6% (1.9) Losurf 300D-3.4% (2.8)
05:30	07:30	Plug and Perf Stage #10 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5710 psi at 209 fpm, 877 LTEN, pumped guns to 17,160'. Pulled up and got line tension and set plug at 17,120'. Line tension prior to setting plug 1610, line tension after plug set 1375, plug set time 1:10 minute. Perf at 17,098'-102', 17,004' –008'. Max pressure 5798 psi. Max rate 14 bpm. Pump 409 bbl water. POH. All shots fired. All tools recovered.
07:30	10:00	Frac stg #10. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11 cups of CFT1200 3. Lost Xlink during the 2.0ppg sand stg, swapped MO -67 totes and Xlink came back. 4. No other issues, overall good job by crew. Able to place job completely. Ball Seat Stage Pressures and Rate: 6100 psi @ 15.5 bpm , 5765 psi Pressure before Seating , 6100 psi Pressure after Seating BC-200-2.9% (2.7), MO-67-4.8% (1.6), MC S-2010T-2.7% (1.1) Vicon NF-4.2% (5.6), Losurf 300D-3.9% (3.2)
10:00	12:30	Grease frac valves.
12:30	15:30	Plug and Perf Stage #11 RIH with guns and plug to KOP. Pump down guns at 12.4 bpm at 5602 psi at 245 fpm, 798 LTEN, pumped guns to 16,966'. Pulled up and got line tension and set plug at 16,950'. Line tension prior to setting plug 1730, line tension after plug set 1480, plug set time 57 seconds. Perf at 16,898'-902', 16,788' –792'. Max pressure 5744 psi. Max rate 14.3 bpm. Pump 388 bbl water. POH. All shots fired. All tools recovered.

Start Time	End Time	Comment
15:30	17:30	Frac stg #11. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11 cups of CFT1200 3. Had steady pressure increase from Linear and Xlink fluid on formation, rolled over with 1.0ppg 100 Mesh reached bottom. 4. No other issues, overall good job. Placed completely. Ball Seat Stage Pressures and Rate: 6375 psi @ 15 bpm , 5885 psi Pressure before Seating , 6375 psi Pressure after Seating. WG-36-3.9% (51.2), BC-200-2.9% (3),MO-67-4.7% (1.7), MC S-2010T-3.3% (1.4) Vicon NF-16.4% (23.2), Losurf 300D-2.2% (1.9)
17:30	20:30	P&P Stg #12 RIH with guns and plug to KOP. Pump down guns at 12.4 bpm at 5602 psi at 245 fpm, 798 LTEN, pumped guns to 16,966'. Pulled up and got line tension and set plug at 16,950'. Line tension prior to setting plug 1730, line tension after plug set 1480, plug set time 57 seconds. Perf at 16,898'-902', 16,788' –792'. Max pressure 5744 psi. Max rate 14.3 bpm. Pump 388 bbl water. Currently POH with guns.
20:30	22:30	Frac stg #12 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 12 cups of CFT3900 3. Job went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5919 psi @ 14.9 bpm , 5493 psi Pressure before Seating , 5919 psi Pressure after Seating. BA-20-9.3% (1.7), MC S-2010T-3.2% (1.2) Vicon NF-2.5% (3), BE-9-4.7% (1.1)
22:30	00:00	P&P stg #13. RIH with guns and plug to KOP. Pump down guns at 13 bpm at 5850 psi at 291 fpm, 790 LTEN, pumped guns to 16,538'. Pulled up and got line tension and set plug at 16,512.5'. Line tension prior to setting plug 1576, line tension after plug set 1430, plug set time 58 seconds. Perf at 16,490'-494', 16,385' –389'. Max pressure 5850 psi. Max rate 13.1 bpm. Pump 325 bbl water. Currently POOH with guns.

Report Start Date	Report End Date	24hr Activity Summary
8/19/2014	8/20/2014	P&P stgs 14,15,16 & 17. Frac stgs 13,14,15,16 & 17

Start Time	End Time	Comment
00:00	01:30	POOH after P&P stg #13
01:30	02:30	Halliburton had some issues with a couple of 1" stops not holding pressure so they had to grease them because they have none on location and to my understanding none in the yard. So, it delayed the frac about one hour
02:30	04:30	Frac stg #13. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water .2. Protechnics pumped 10 cups of CFT1300 3. Job went well with all proppant placed.Ball Seat Stage Pressures and Rate: 5635 psi @ 14.8 bpm , 5448 psi Pressure before Seating , 5635 psi Pressure after Seating. BC-200-2.6% (2.1), FR-66-8.1% (1.2),BA-20-7.3% (1.3), CL-31-8.5% (1)MO-67-7% (2), MC S-2010T-6.8% (2.5) Vicon NF-2.6% (3), Losurf 300D-2.6% (1.9)BE-9-6.8% (1.5)

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
04:30	06:30	P&P stg #14 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5835 psi at 280 fpm, 810 LTEN, pumped guns to 16,342'. Pulled up and got line tension and set plug at 16,315.5'. Line tension prior to setting plug 1606, line tension after plug set 1450, plug set time 62 seconds. Perf at 16,306'-310', 16,176' –180'. Max pressure 5835 psi. Max rate 14 bpm. Pump 321 bbl water. Currently POOH with guns.
06:30	08:45	Frac stg #14. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water 2. Protechnics pumped 10.5 cups of CFT1300 3. Good job with no problems, place job completely. Ball Seat Stage Pressures and Rate: 5945 psi @ 15.1 bpm , 5580 psi Pressure before Seating , 5945 psi Pressure after Seating WG-36-3.1% (34.6), BA-20-5.9% (1.1), CL-31-8.5% (1.1) MO-67-6.3% (1.9), MC S-2010T-2.8% (1.1) Vicon NF-4.1% (5.1), Losurf 300D-2.8% (2.1)
08:45	11:00	Plug and Perf Stage #15 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5799 psi at 257 fpm, 835 LTEN, pumped guns to 16,133'. Pulled up and got line tension and set plug at 16,110'. Line tension prior to setting plug 1418, line tension after plug set 1285, plug set time 1 minute, 15 seconds. Perf at 16,072'-076', 15,973' –977'. Max pressure 5871 psi. Max rate 14 bpm. Pump 348 bbl water. POH. All shots fired. All tools recovered.
11:00	13:00	Frac stage #15. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped XX cups of CFTXX00 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5760 psi @ 15.2 bpm , 5440 psi Pressure before Seating , 6765 psi Pressure after Seating MO-67-3.8% (1.1), MC S-2010T-4.3% (1.6) Vicon NF-2.7% (3.4), Losurf 300D-2.2% (BE-9-4.4% (1)
13:00	15:00	Plug and Perf Stage #16 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5648 psi at 249 fpm, 943 LTEN, pumped guns to 15,916'. Pulled up and got line tension and set plug at 15,910'. Line tension prior to setting plug 1391, line tension after plug set 1270, plug set time 49 seconds. Perf at 15,874'-878', 15,764' –768'. Max pressure 5731 psi. Max rate 14 bpm. Pump 331 bbl water. POH. All shots fired. All tools recovered.
15:00	17:00	Frac stage #16. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11 cups of CFT1300 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 6365 psi @ 25.5 bpm , 6040 psi Pressure before Seating , 6365 psi Pressure after Seating WG-36-5.3% (58.7), BC-200-5.6% (4.8), Vicon NF-5% (6.2), Losurf 300D-5.6% (4.3) Cat 3/4-6.6% (1.6), BE-9-5.2% (1.2)
17:00	19:30	FMC came out to Grease the frac stack and manifold.
19:30	22:00	RIH with guns and plug to KOP. Pump down guns at 13 bpm at 5860 psi at 265 fpm, 775 LTEN, pumped guns to 15,706'. Pulled up and got line tension and set plug at 15,710'. Line tension prior to setting plug 1379, line tension after plug set 1216, plug set time 56 seconds. Perf at 15,623'-627', 15,568' –572'. Max pressure 5860 psi. Max rate 13 bpm. Pump 310 bbl water. Currently POOH.

Start Time	End Time	Comment
22:00	00:00	Frac stg #17 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped XX cups of CFTXX00 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5768 psi @ 15.6 bpm , 5553 psi Pressure before Seating , 5768 psi Pressure after Seating. WG-36-4.2% (42.3), BC-200-3.9% (3.1),Scalesorb 7-6.2% (6.6), MC S-2010T-4.6% (1.7) Vicon NF-3.5% (4.1), Losurf 300D-3.2% (2.3)Cat 3/4-6% (1.3),

Report Start Date	Report End Date	24hr Activity Summary
8/20/2014	8/21/2014	P&P stgs 18,19,20 &21. Frac stgs 18,19 & 20

Start Time	End Time	Comment
00:00	02:30	P&P stg #18 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5750 psi at 280 fpm, 900 LTEN, pumped guns to 15,504'. Pulled up and got line tension and set plug at 15,482.5'. Line tension prior to setting plug 1541, line tension after plug set 1345, plug set time 83 seconds. Perf at 15,478'-482', 15,353' –357'. Max pressure 5750 psi. Max rate 14 bpm. Pump 293 bbl water. Currently POOH.
02:30	04:30	Halliburton screened the well off by sending a 10lb slug down hole at some point in stg #18. Someone fat fingered a number a didn't catch it until it was already on the denso. The next update will have more info on what actually happened. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped XX cups of CFTXX00 3. Had a issue with the growler as crosslink was brought on. Issue was resolved as pumps were being brought off line. 4. Pad was extended to insure good crosslink before staging into proppant. 5. Incorrect lbs/rev set point was entered at the beginning of the 5 ppg resulting in a 11 ppg slug. With sand finishing shortly after. 6. Pressure turned up just after the high concentration sand hit formation. Pumps kicked out with 4346 gallons pumped in flush. 7. Well was turned over to flowback. Ball Seat Stage Pressures and Rate: 6470 psi @ 14.7 bpm , 5740 psi Pressure before Seating , 6470 psi Pressure after Seating WG-36-6.1% (75), Losurf 300D-2.6% (1.9) Cat 3/4-4.8% (1.2), BE-9-5% (1) 53.2% OF THE DESIGNED PROPPANT WAS PLACED IN THE FORMATION. 53,247 LBS OF PROPPANT PLACED IN THE FORMATION. 49,710 LBS OF PROPPANT LEFT IN CASING.
04:30	08:30	Flowed back 1320 bbl at 8.7 bpm and 3000 psi for 850 bbl. Then flowed 4 bpm at 3500 psi on 9/64" choke. Trace of sand and paraffin in sample. Did not catch ball. Pump 502 bbl sweep (1.5 well bore volume).
08:30	10:30	Plug and Perf Stage #19 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 7816 psi at 235 fpm, 714 LTEN, pumped guns to 15,336'. Pulled up and got line tension and set plug at 15,306'. Line tension prior to setting plug 1442, line tension after plug set 1225, plug set time 65 seconds. Perf at 15,252'-256', 15,146' –150'. Max pressure 7860 psi. Max rate 14 bpm. Pump 313 bbl water. POH. All shots fired. All tools recovered.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
10:30	13:00	Frac stage #19. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 10.5 cups of CFT3700 3. Pressure came up quicker than expected during flush. Reduced rate to stay under max pressure. 4. Had to come offline at WBV due to pressure, able to get back on and establish rate. Extended flush to ensure WL could get down. 5. Good job by crew making rate adjustments. Placed prop completely. Ball Seat Stage Pressures and Rate: 5995 psi @ 14.7 bpm , 5995 psi Pressure before Seating , 5995 psi Pressure after Seating BC-200-4.9% (3.8), FR-66-4.4% (1.2), MC S-2010T-4.9% (2.4) Vicon NF-3.9% (5.5), Losurf 300D-3.8% (3.7)
13:00	14:00	Change out Halliburton valve in pump down line.
14:00	16:00	Plug and Perf Stage #20 RIH with guns and plug to KOP. Pump down guns at 11.1 bpm at 7236 psi at 205 fpm, 604 LTEN, pumped guns to 15,110'. Pulled up and got line tension and set plug at 15,080'. Line tension prior to setting plug 1591, line tension after plug set 1340, plug set time 69 seconds. Perf at 15,035'-039', 14,930' –934'. Max pressure 8320 psi. Max rate 12 bpm. Pump 282 bbl water. POH. Alls hots fired. All tools recovered.
16:00	18:00	Frac stg #20. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11.5 cups of CFT3700 3. Based on previous two intervals, used 5ppg max prop design. 4. Lost MO-67 in th 1.0ppg sand stg, sucked tote low, extended 1.0ppg stage to get MO going. 5. No other issues, able to place job completely. Ball Seat Stage Pressures and Rate: 5625 psi @ 14.8 bpm , 5505 psi Pressure before Seating , 5625 psi Pressure after Seating. WG-36-3.8% (47.7), BC-200-4.2% (4.1), MO-67-4.8% (1.6), MC S-2010T-3.9% (1.6) Vicon NF-4.3% (5.7), Losurf 300D-3.9% (3.1)
18:00	21:00	FMC finally finished up greasing the frac stack and frac manifold. It took 2.5 hours to do both wells.
21:00	00:00	Plug and Perf Stage #21 RIH with guns and plug to KOP. Pump down guns at 13 bpm at 5800 psi at 267 fpm, 768 LTEN, pumped guns to 14,870'. Pulled up and got line tension and set plug at 14,870'. Line tension prior to setting plug 1400, line tension after plug set 1288, plug set time 63 seconds. Perf at 14,821'-825', 14,736' –740'. Max pressure 5800 psi. Max rate 13 bpm. Pump 246 bbl water. Currently POOH with guns.

Report Start Date	Report End Date	24hr Activity Summary
8/21/2014	8/22/2014	P&P stgs 22,23,24 & 25. Frac stgs 21,22,23 & 24

Start Time	End Time	Comment
00:00	01:00	Frac stg #21. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11.5 cups of CFT1500 3. Pumped a 5 ppg max proppant concentration design. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 5948 psi @ 15.2 bpm , 5564 psi Pressure before Seating , 5948 psi Pressure after Seating. Vicon NF-2.1% (2.5),
01:00	03:00	P&P stg 22 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5932 psi at 260 fpm, 763 LTEN, pumped guns to 14,664'. Pulled up and got line tension and set plug at 14,638.5'. Line tension prior to setting plug 1510, line tension after plug set 1315, plug set time 69 seconds. Perf at 14,609'-613', 14,525' –529'. Max pressure 6150 psi. Max rate 14 bpm. Pump 267 bbl water. Currently POOH with guns.
03:00	05:00	Frac stg #22 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Produced Water . 2. Protechnics pumped 11 cups of CFT1500 3. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 6323 psi @ 15 bpm , 5692 psi Pressure before Seating , 6299 psi Pressure after Seating. BC-200-2.1% (1.6), Losurf 300D-4.4% (3.1)
05:00	07:00	Plug and Perf Stage #23 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 6030 psi at 285 fpm, 730 LTEN, pumped guns to 14,501'. Pulled up and got line tension and set plug at 14,450'. Line tension prior to setting plug 1558, line tension after plug set 1300, plug set time 48 seconds. Perf at 14,393'-397', 14,260' –264'. Max pressure 6030 psi. Max rate 14 bpm. Pump 253 bbl water. POH. All guns fired. All tools recovered.
07:00	09:00	Frac stage #23. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped XX cups of CFTXX00 3. Extended Xlink pad to pH lined out, low pH in tub from BA-20. Adjusted buffers through out job to compensate for water change. 4. No other issues, good job by crew making adjustments to fluid. Placed job completley. Ball Seat Stage Pressures and Rate: 5915 psi @ 14.8 bpm , 5540 psi Pressure before Seating , 5915 psi Pressure after Seating BC-200-4.5% (4.7), MC S-2010T-4.8% (2) Vicon NF-4.9% (6.8), Losurf 300D-4.8% (4) Cat 3/4-4.4% (1.2), CLA-Web-2.4% (2), BE-9-4.8% (1.2)

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
09:00	11:00	Plug and Perf Stage #24 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5644 psi at 252 fpm, 882 LTEN, pumped guns to 14,255'. Pulled up and got line tension and set plug at 14,207'. Line tension prior to setting plug 1454, line tension after plug set 1233, plug set time 66 seconds. Perf at 14,187'-191', 14,049' –053'. Max pressure 5656 psi. Max rate 15 bpm. Pump 254 bbl water.
11:00	14:00	Frac stage #24.1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT1500 3. Had pressure come up when 4ppg reached bottom, 6.ppg at blender. Reduced rate to try to line out pressure 4. Pressure continued to climb during flush, worked rate down as rate increase. Pressure turned when 5ppg hit bottom. 5. Come off 3109gal into flush, turned well over to flowback. 6. Placed approx 61400lbs of prop and left approx 38800lbs in the wellbore. Ball Seat Stage Pressures and Rate: 6195 psi @ 15 bpm , 5540 psi Pressure before Seating , 6190 psi Pressure after Seating WG-36-2.1% (20.7), BC-200-4.9% (3.7), Scalesorb 7-4.9% (5.1), Vicon NF-4.8% (4.8), Losurf 300D-3.6% (2.1) CLA-Web-3.6% (2.1), 61.4% OF THE DESIGNED PROPPANT WAS PLACED IN THE FORMATION. 61,400 LBS OF PROPPANT PLACED IN THE FORMATION. 38,800 LBS OF PROPPANT LEFT IN CASING.
14:00	16:00	Flow back well at 8.1 bpm. With 800 bbl flowed, sample had only a slight trace of sand. Flow well on 24/64" choke with 3800 psi at 3.8 bpm. Recovered 1300 bbl water with trace of paraffin.
16:00	19:00	P&P stg #25 RIH with guns and plug to KOP. Pump down guns at 13.1 bpm at 6588 psi at 262 fpm, 714 LTEN, pumped guns to 13,950'. Pulled up and got line tension and set plug at 13,925.5'. Line tension prior to setting plug 1438, line tension after plug set 1225, plug set time 57 seconds. Perf at 13,900'-904', 13,785' –789'. Max pressure 6925 psi. Max rate 13.1 bpm. Pump 229 bbl water. Currently POOH with guns.
19:00	00:00	FMC's greasing the frac stack and frac manifold. We are done greasing the frac stack and frac manifold. We put pressure on the stack and worked the inner flowcross valves on both wells and didn't see any problems with them. We have the flowback tank on the 13-9-4-3-2WH about half way cleaned out. So we will wait for them to get done with the sand in that tank to frac stg #25. We still have to clean the sand out of the flowback tank on the 14-9-4-3-2WH.

Report Start Date	Report End Date	24hr Activity Summary
8/22/2014	8/23/2014	P&P stgs 26,27,28,29 & 30. Frac stgs 25,26,27,28 & 29

Start Time	End Time	Comment
00:00	00:30	Finally got the flowback tanks cleaned out on this well so we can continue frac operations

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:30	02:15	1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 12 cups of CFT2900 3. Pumped a 5 ppg max proppant concentration design with 10,000 lbs of 100 Mesh. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 6330 psi @ 14.6 bpm , 5673 psi Pressure before Seating , 6320 psi Pressure after Seating. MC S-2010T-3.6% (1.9) CLA-Web-3.6% (3.7),
02:15	04:15	P&P stg #26
04:15	05:00	Halliburton had to replace some seats in a pump truck
05:00	07:30	Frac stg #26. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 12 cups of CFT2800 3. Pumped 5 ppg Max proppant concentration design with 10,000 lbs. 100 Mesh. 4. Pressure began rising during 5 ppg. Had to drop rate during flush to alleviate pressure. 5. Extended flush until pressure dropped off and pumpdown rate could be achieved. Ball Seat Stage Pressures and Rate: 6145 psi @ 15.2 bpm , 5535 psi Pressure before Seating , 6145 psi Pressure after Seating WG-36-5.1% (65.1), BC-200-4.2% (4.1), MC S-2010T-3.6% (1.5) Vicon NF-5.1% (6.9), Losurf 300D-5% (4), CLA-Web-5% (4),
07:30	09:30	Plug and Perf Stage #27 RIH with guns and plug to KOP. Pump down guns at 12 bpm at 7848 psi at 217 fpm, 600 LTEN, pumped guns to 13,526'. Pulled up and got line tension and set plug at 13,500'. Line tension prior to setting plug 1413, line tension after plug set 1227, plug set time 66 seconds. Perf at 13,463'-467', 13,385' –389'. Max pressure 8543 psi. Max rate 12 bpm. Pump 256 bbl water. POH. All shots fired. All guns recovered.
09:30	12:00	Frac stage #27. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water .2. Protechnics pumped 11 cups of CFT2900 3. Lower pressure than previous stages, saw good pressure relief from Acid. 4. Trouble lining out LoSurf 300 during 4.0ppg stg, let tote get low. 5. No problems pumping job, placed completely. Ball Seat Stage Pressures and Rate: 5630 psi @ 14.8 bpm , 5375 psi Pressure before Seating , 5630 psi Pressure after Seating. WG-36-3.7% (46.8), BC-200-4.8% (4.7), MC S-2010T-3.3% (1.3) Vicon NF-4.8% (6.2), Losurf 300D-4.4% (3.4) CLA-Web-4.6% (3.6),
12:00	14:30	Plug and Perf Stage #28 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 880 psi at 252 fpm, 880 LTEN, pumped guns to 13,356'. Pulled up and got line tension and set plug at 13,330'. Line tension prior to setting plug 1469, line tension after plug set 1268, plug set time 62 seconds. Perf at 13,263'-267', 13,153' –157'. Max pressure 5560 psi. Max rate 14 bpm. Pump 216 bbl water. POH. Second gun did not fire. First and third guns fired. All tools recovered.

Start Time	End Time	Comment
14:30	16:45	Frac stage #28. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2900 3. Good job with no problems, placed completely. Ball Seat Stage Pressures and Rate: 5310 psi @ 14.8 bpm , 5080 psi Pressure before Seating , 5310 psi Pressure after Seating. WG-36-4.7% (57.8), BC-200-4.1% (3.9), MC S-2010T-4.3% (1.7) Vicon NF-4.9% (6.4), Losurf 300D-4.8% (3.7) Cat 3/4-4.2% (1.1), CLA-Web-4.8% (3.7), BE-9-4.4% (1)
16:45	18:30	Plug and Perf Stage #29 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5241 psi at 272 fpm, 870 LTEN, pumped guns to 13,142'. Pulled up and got line tension and set plug at 13,126'. Line tension prior to setting plug 1516, line tension after plug set 1313, plug set time 50 seconds. Perf at 13,085'-089', 12,963' –967'. Max pressure 5275 psi. Max rate 14 bpm. Pump 191 bbl water. POH. All guns fired. All tools recovered.
18:30	20:00	FMC is greasing the frac stack and frac manifold
20:00	22:30	Frac stg #291. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped XX cups of CFTXX00 Ball Seat Stage Pressures and Rate: 6149 psi @ 13.9 bpm , 5345 psi Pressure before Seating , 6103 psi Pressure after Seating WG-36-3% (39.8), BC-200-5.8% (5.9), CL-31-7.7% (1.2) Scalesorb 7-7.7% (8.3), MC S-2010T-4.1% (1.6) Vicon NF-5.1% (6.8), Losurf 300D-4.8% (3.8) Cat 3/4-5.9% (1.6), CLA-Web-6% (4.8), BE-9-5.2% (1.2)
22:30	00:00	Plug and Perf Stage #30 RIH with guns and plug to KOP. Pump down guns at 13 bpm at 5465 psi at 275 fpm, 750 LTEN, pumped guns to 12,940'. Pulled up and got line tension and set plug at 12,920'. Line tension prior to setting plug 1430, line tension after plug set 11237, plug set time 37 seconds. Perf at 12,875'-879', 12,756' –760'. Max pressure 5465 psi. Max rate 13 bpm. Pump 176 bbl water. Currently POOH with guns.

Report Start Date	Report End Date	24hr Activity Summary
8/23/2014	8/24/2014	P&P stgs 30,31,32,33 & 34. Frac stgs 30,32,32,33 & 34

Start Time	End Time	Comment
00:00	00:45	POOH after P&P stg #30

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:45	02:45	1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped XX cups of CFTXX00 3. Pressure turned up with 3 ppg on formation and screws were cut. 4. Pumps kicked out with ~4300 gallons flushed. 5. Well was turned over to flowback. Ball Seat Stage Pressures and Rate: 5465 psi @ 14 bpm , 5100 psi Pressure before Seating , 5465 psi Pressure after Seating WG-36-5.9% (56.9), BC-200-4.6% (3.3), CL-31-9.1% (1) MC S-2010T-6% (1.7) Vicon NF-4.2% (4.2), Losurf 300D-4.2% (2.4) CLA-Web-4.5% (2.6), BE-9-7.1% (1.2) 38.3% OF THE DESIGNED PROPPANT WAS PLACED IN THE FORMATION. 38,290 LBS OF PROPPANT PLACED IN THE FORMATION. 37,510 LBS OF PROPPANT LEFT IN CASING.
02:45	05:00	Flowing the well back at 8.1bpm @ 2700psi on a 29/64 choke. We are going to flowback 600bbls.
05:00	06:00	Flushed the well
06:00	08:30	Plug and Perf Stage #31 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 6226 psi at 238 fpm, 785 LTEN, pumped guns to 12,744'. Pulled up and got line tension and set plug at 12,720'. Line tension prior to setting plug 1427, line tension after plug set 1215, plug set time 55 seconds. Perf at 12,690'-694', 12,575' –579'. Max pressure 6332 psi. Max rate 14 bpm. Pump 197 bbl water. POH. All shots fired. All tools recovered.
08:30	11:00	Frac stage #31. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 10.5 cups of CFT1700 3. Had pressure start to increase with 2.0ppg and 3.0ppg on bottom, cut prop at the movers. 4. Saw sight increase in pressure during flush but lined out with inverse hydrostatic. 5. Able to flush well completely. WG-36-3.1% (37.6), BC-200-4.9% (4.6), MC S-2010T-4.6% (2.2) Vicon NF-4.5% (6.6), Losurf 300D-4.6% (4.4) CLA-Web-4.8% (4.6), 90.3% of sand placed on formation.
11:00	13:00	Plug and Perf Stage #32 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5656 psi at 226 fpm, 902 LTEN, pumped guns to 12,578'. Pulled up and got line tension and set plug at 12,510'. Line tension prior to setting plug 1335, line tension after plug set 1135, plug set time 67 seconds. Perf at 12,475'-479', 12,361' –365'. Max pressure 5942 psi. Max rate 14 bpm. Pump 199 bbl water. POH. All shots fired. All tools recovered.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
13:00	14:30	Frac stage #32. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water. 2. Protechnics pumped 11 cups of CFT1700. 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5845 psi @ 14.9 bpm , 5315 psi Pressure before Seating , 5860 psi Pressure after Seating. WG-36-2.3% (29), BC-200-4.2% (4.1), MC S-2010T-3.3% (1.3) Vicon NF-4.6% (5.9), Losurf 300D-4.7% (3.5) CLA-Web-4.6% (3.5),
14:30	16:15	Plug and Perf Stage #33 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5385 psi at 271 fpm, 859 LTEN, pumped guns to 12,336'. Pulled up and got line tension and set plug at 12,300'. Line tension prior to setting plug 1436, line tension after plug set 1245, plug set time 48 seconds. Perf at 12,260'-264', 12,165' –169'. Max pressure 5460 psi. Max rate 14 bpm. Pump 159 bbl water. POH. All shots fired. All tools recovered.
16:15	17:45	Frac stage #33. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 12 cups of CFT2500 3. Didn't have Gel screw going on Growler, lost viscosity in 1.0ppg 100Mesh stg. Cut 100Mesh and reduced rate to 25bpbm get tub back. 4. Started to lose rate on BC pump, kept rate at 30bpm until hose could be moved to blender tub. Able to get BC-200 back to set point, brought rate up to designed rate. 5. No problems placing job completely. Ball Seat Stage Pressures and Rate: 5940 psi @ 14.9 bpm , 5265 psi Pressure before Seating , 5930 psi Pressure after Seating WG-36-4.5% (61.7), BC-200-4.4% (4.6), MC S-2010T-3% (1.2) Vicon NF-4.8% (6.6), Losurf 300D-4.3% (3.4) CLA-Web-4.3% (3.4), BE-9-4.7% (1.1)
17:45	19:00	FMC greased the Frac stack and Frac Manifold.
19:00	22:30	Flushed the well before wireline RIH Plug and Perf Stage #34 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5750 psi at 267 fpm, 850 LTEN, pumped guns to 12,050'. Pulled up and got line tension and set plug at 12,040'. Line tension prior to setting plug 1367, line tension after plug set 1100, plug set time 36 seconds. Perf at 11,990'-994', 11,910' –914'. Max pressure 5750 psi. Max rate 14 bpm. Pump 145 bbl water. Currently POOH with guns.

Start Time	End Time	Comment
22:30	00:00	Frac stg #341. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2500 3. Pumped 5 ppg max proppant concentration design with 10,000 lbs of 100 Mesh. 4. Cut proppant ~10,000 lbs early due to pressure turning up during 5 ppg. 5. Well was successfully flushed without dropping any rate. Ball Seat Stage Pressures and Rate: 5810 psi @ 15.4 bpm , 5222 psi Pressure before Seating , 5810 psi Pressure after Seating WG-36-3.6% (43.5), BC-200-4.4% (4.1), MC S-2010T-4.8% (1.8) Vicon NF-4.5% (5.6), Losurf 300D-4.8% (3.6) CLA-Web-4.8% (3.6), BE-9-4.8% (1.1)

Report Start Date	Report End Date	24hr Activity Summary
8/24/2014	8/25/2014	

Start Time	End Time	Comment
00:00	02:15	Plug and Perf Stage #35 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5750 psi at 264 fpm, 765 LTEN, pumped guns to 11,895'. Pulled up and got line tension and set plug at 11,875'. Line tension prior to setting plug 1320, line tension after plug set 1150, plug set time 23 seconds. Perf at 11,820'-824', 11,810' –814'. Max pressure 5750 psi. Max rate 14 bpm. Pump 165 bbl water. Currently POOH with guns.
02:15	03:30	Frac stg #35 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11.5 cups of CFT2500 3. Pumped 5 ppg Max Proppant Concentration Design with 10,000 lbs of 100 Mesh. 4. Cut sand with during 5 ppg when pressure began rising with 3 ppg on formation. 5. Pressured out with ~90 bbls left in flush. Ball Seat Stage Pressures and Rate: 5456 psi @ 14.6 bpm , 5108 psi Pressure before Seating , 5436 psi Pressure after Seating. BC-200-3% (2.9),Losurf 300D-2.5% (1.8)CLA-Web-2.5% (1.8), 74.7% OF THE DESIGNED PROPPANT WAS PLACED IN THE FORMATION. 76,590 LBS OF PROPPANT PLACED IN THE FORMATION. 14,810 LBS OF PROPPANT LEFT IN CASING.
03:30	05:00	Flowed back the well on at 7.5bpm @ 2500psi. on a 24/64 choke
05:00	07:00	Pump 721 bbl sweep.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
07:00	09:00	Plug and Perf Stage #36 RIH with guns and plug to KOP. Pump down guns at 10 bpm at 8996 psi at 271 fpm, 538 LTEN, pumped guns to 11,768'. Pulled up and got line tension and set plug at 11,670'. Line tension prior to setting plug 1146, line tension after plug set 1007, plug set time 52 seconds. Perf at 11,585'-589', 11,451' - 455'. Max pressure 9200 psi. Max rate 12 bpm. Pump 184 bbl water. POH. All shots fired. All tools recovered.
09:00	10:30	Frac stage #36. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2500 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5035 psi @ 14.9 bpm , 5000 psi Pressure before Seating , 5035 psi Pressure after Seating WG-36-4.3% (53.3), BC-200-4.4% (4.2), FR-66-4% (1), MC S-2010T-3.6% (1.9) Vicon NF-5% (7.8), Losurf 300D-4.5% (4.7) CLA-Web-4.5% (4.7),
10:30	12:30	Plug and Perf stage #37 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5189 psi at 260 fpm, 846 LTEN, pumped guns to 11,443'. Pulled up and got line tension and set plug at 11,380'. Line tension prior to setting plug 1423, line tension after plug set 1166, plug set time 50 seconds. Perf at 11,290'-294', 11,160' - 164'. Max pressure 5211 psi. Max rate 14 bpm. Pump 122 bbl water. POH. All shots fired. All tools recovered.
12:30	14:30	Frac stage #37. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 9 cups of CFT2000 3. Trouble bringing MO-67 on, reduced rate and extended Xlink pad stage until add lined out. 4. No other issues, overall good job. Placed completely. Ball Seat Stage Pressures and Rate: 5650 psi @ 14.8 bpm , 5100 psi Pressure before Seating , 5620 psi Pressure after Seating WG-36-5.3% (74.3), Vicon NF-4.2% (5.7), Losurf 300D-3.7% (2.9)
14:30	16:30	Plug and Perf stage #38 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5179 psi at 257 fpm, 834 LTEN, pumped guns to 11,086'. Pulled up and got line tension and set plug at 11,045'. Line tension prior to setting plug 1386, line tension after plug set 1144, plug set time 48 seconds. Perf at 10,977'-981', 10,865' - 869'. Max pressure 5230 psi. Max rate 14 bpm. Pump 107 bbl water. POH. All shots fired. All tools recovered.
16:30	18:00	Frac stage #38 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 10 cups of CFT2000 3. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 6335 psi @ 14.9 bpm , 5415 psi Pressure before Seating , 6315 psi Pressure after Seating, WG-36-3.9% (50.6), Losurf 300D-4.1% (3.1)
18:00	19:30	Grease frac stack
19:30	21:30	Plug and Perf stage #39 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5,717 psi at 263 fpm, 810 LTEN, pumped guns to 10,852'. Pulled up and got line tension and set plug at 10,800'. Line tension prior to setting plug 1,247, line tension after plug set 1,056, plug set time 30 seconds. Perf at 10,750'-54', 10,740' - 44'. Max pressure 5,717 psi. Max rate 14 bpm. Pump 93.37 bbl water.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
21:30	00:00	Frac stage #39 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2000 3. Pumped 5 ppg Max proppant concentration design with 10,000 lbs of 100 Mesh. 4. Pressure turned with 3 ppg during 4 ppg on surface and screws were cut. 5. Well was successfully flushed. Ball Seat Stage Pressures and Rate: 5328 psi @ 14.8 bpm , 5018 psi Pressure before Seating , 5324 psi Pressure after Seating WG-36-7% (80.8), BC-200-2.9% (2.5), Scalesorb 7-34.1% (25.4), Vicon NF-5.7% (6.8), Losurf 300D-2.7% (1.9), CLA-Web-2.7% (1.9), BE-9-5% (1)

Report Start Date	Report End Date	24hr Activity Summary
8/25/2014	8/26/2014	P&P and Frac stages 40, 41, 42, 43, 44

Start Time	End Time	Comment
00:00	02:30	Plug and Perf stage #40 RIH with guns and plug to KOP. Pump down guns at 11 bpm at 8,682 psi at 178 fpm, 780 LTEN, pumped guns to 10,642'. Pulled up and got line tension and set plug at 10,630'. Line tension prior to setting plug 1,270, line tension after plug set 1,111, plug set time 60 seconds. Perf at 10,560'-64', 10,410' - 14'. Max pressure 8,682 psi. Max rate 11 bpm. Pump 164.74 bbl water. shut down for lighting and rain over location.
02:30	04:30	Frac stage #40 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2000 3. Pumped 5 ppg Max Proppant Concentration design with 10,000 lbs of 100 Mesh. 4. Stage went well with all proppant placed. Ball Seat Stage Pressures and Rate: 6325 psi @ 15 bpm , 5832 psi Pressure before Seating , 6325 psi Pressure after Seating, WG-36-5.8% (72), BC-200-4% (3.8), MC S-2010T-5.3% (1.9) Vicon NF-4.8% (6), Losurf 300D-4.4% (3.2)
04:30	06:30	Plug and Perf stage #41 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5,192 psi at 262 fpm, 810 LTEN, pumped guns to 10,271'. Pulled up and got line tension and set plug at 10,255'. Line tension prior to setting plug 1,370, line tension after plug set 1,070, plug set time 75 seconds. Perf at 10,161'-65', 9,965' - 69'. Max pressure 5,192 psi. Max rate 14 bpm. Pump 65.93 bbl water.
06:30	08:15	Repair chemical pump.
08:15	10:15	Frac stage #41. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water. 2. Protechnics pumped 12 cups of CFT2100 3. Pumped 5 ppg Max Proppant Concentration design with 10,000 lbs of 100 Mesh. 4. Problems with CL-31 LA pump, shutdown to fix. Down approx 1:40hrs. 5. No issues getting back into interval, placed job completely. Ball Seat Stage Pressures and Rate: 5611 psi @ 14.99 bpm , 5085 psi Pressure before Seating , 5611 psi Pressure after Seating WG-36-4.9% (69), BC-200-5% (5.4), Vicon NF-4.7% (6.4), Losurf 300D-4.7% (3.6) CLA-Web-4.7% (3.6), BE-9-4.8% (1.1)

Start Time	End Time	Comment
10:15	12:00	Plug and Perf stage #42 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 5728 psi at 248 fpm, 831 LTEN, pumped guns to 9,912'. Pulled up and got line tension and set plug at 9,885'. Line tension prior to setting plug 1,295, line tension after plug set 1,110, plug set time 63 seconds. Perf at 9,830'-834', 9,715' - 719'. Max pressure 5,737 psi. Max rate 14 bpm. Pump 49 bbl water. POH. All guns fired. All tools recovered.
12:00	12:15	Safety stand down. Topics- don't get in a hurry, three point contact, slips trips and falls.
12:15	13:30	Frac stage #42. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 11 cups of CFT2300 3. Pumped 5 ppg Max Proppant Concentration design with 10,000 lbs of 100 Mesh. 4. Good job with no issues, placed completely. Ball Seat Stage Pressures and Rate: 5630 psi @ 14.8 bpm , 5080 psi Pressure before Seating , 5640 psi Pressure after Seating WG-36-4% (50.3), Losurf 300D-4.2% (3)
13:30	14:30	Plug and Perf stage #43 RIH with guns and plug to KOP. Pump down guns at 14 bpm at 4949 psi at fpm, 867 LTEN, pumped guns to 9,712'. Pulled up and got line tension and set plug at 9,678'. Line tension prior to setting plug 1,227, line tension after plug set 1,050, plug set time 38 seconds. Perf at 9,595'-9599', 9,500' - 504'. Max pressure 4995 psi. Max rate 14 bpm. Pump 38 bbl water. POH. All shots fired. All tools recovered.
14:30	17:00	Frac stage #43. 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 12 cups of CFT2300 3. Pumped 5 ppg Max Proppant Concentration design with 10,000 lbs of 100 Mesh.4. Pressure started increasing at the start of 5ppg stg, 3.0ppg on bottom. 5. Continued to rise during flush, dropped rate to control pressure. Able to get flushed, extended flush to ensure WL could get down. 6. Able to place job completely. Ball Seat Stage Pressures and Rate: 6185 psi @ 14.8 bpm , 5195 psi Pressure before Seating , 6195 psi Pressure after Seating WG-36-3.2% (40.7), BC-200-4.9% (4.8), MC S-2010T-3.6% (1.3) Losurf 300D-5% (3.6) CLA-Web-5% (3.6),
17:00	18:00	SD-lightning.
18:00	20:00	Plug and Perf stage #44 RIH with guns and plug to KOP. Pump down guns at 12 bpm at 7,677 psi at fpm, 810 LTEN, pumped guns to 9,487'. Pulled up and got line tension and set plug at 9,480'. Line tension prior to setting plug 1,408, line tension after plug set 1,069, plug set time 62 seconds. Perf at 9,460'-64', 9,370' - 74'. Max pressure 7,677 psi. Max rate 12 bpm. Pump 32.63 bbl water. Wait on lighting to pass, Live gun inhole.
20:00	21:30	SD-lightning.

Start Time	End Time	Comment
21:30	00:00	Frac #44 1. Global Kick Outs set at 9500 psi. Pressure tested to 10500 psi. Job pumped with Fresh Water . 2. Protechnics pumped 12 cups of CFT2300 3. Pumped 5 ppg Max Proppant Concentration design with 10,000 lbs of 100 Mesh. 4. Had trouble getting a good crosslink. Shut down during pad 2 times to troubleshoot issue. 5. Issue was found with the CL-31 injection port. 6. Well was successfully flushed. Ball Seat Stage Pressures and Rate: 7473 psi @ 13.4 bpm , 6459 psi Pressure before Seating , 7455 psi Pressure after Seating CL-31-5.1% (1.1), MC S-2010T-3.4% (1.6) Vicon NF-3.4% (5.6), Losurf 300D-3.4% (3.1) Cat 3/4-5.4% (2), CLA-Web-4.5% (4.1),

Report Start Date	Report End Date	24hr Activity Summary
8/26/2014	8/27/2014	Continue to RDMO frac equip, ND/NU BOP's and test same.

Start Time	End Time	Comment
00:00	02:30	Kill plug #1 RIH with plug to 8,330'. Pulled up and got line tension and set plug at 8,300'. Line tension prior to setting plug 1,530, after plug set 1,350. Plug set time 40 seconds. Bleed off pressure to 0 Psi, Plug holding. POH with tools, all tools recovered. Kill plug #2 RIH with plug to 8,280'. Pulled up and got line tension and set plug at 8,250'. Line tension prior to setting plug 1,690, after plug set 1,530. Plug set time 72 seconds. Bleed off pressure to 0 Psi, Plug holding. POH with tools, all tools recovered.
02:30	03:30	RDMO JW Wireline and Howco frac equipment.
03:30	12:30	ND Frac stack, NU BOP's, Continue to RDMO Howco frac equip. Tear down and MO water manifold.
12:30	16:30	MIRU Nabors WOR. Spot in and RU pumps. Spot in swab tanks. Inspect tbg.
16:30	20:00	Wait on snubbing unit.
20:00	00:00	Shut Down for Night, Wait on daylight.

Report Start Date	Report End Date	24hr Activity Summary
8/27/2014	8/28/2014	Finish MIRU of WOR & Snubbing unit, Drill out plugs

Start Time	End Time	Comment
00:00	07:00	SDFN, Waiting on daylight
07:00	09:00	Hold PJSM, Spot in & Rig up Rogue Snubbing Unit
09:00	11:00	R/U B&C Quick Test, Pressure test Snubbing unit BOP'S, lower 2 3/8" pipe rams, & upper 2 3/8" pipe ram, 250 psi low / 10,000 psi high, Hydraulic Annular 250 psi low / 3500 psi high
11:00	13:00	Spot in hydraulic catwalk, pipe racks, tally 2 3/8" 5.96# P-110 PH-6 Workstring
13:00	18:00	M/U BHA, 4.625" OD, 4-blade concave inserted mill, 2 3/8" PH-6 B X 2 3/8" PAC B Double flapper bit sub, 1 Jt. 2 3/8" 5.96# P110 PH-6 tbg., 1.56" ID "RN"- Nipple, P/U 2 3/8" PH-6 tbg. (circulating hole w/H2O every 1000', installing 1.710" ID "R" Nipple every 5000')
18:00	00:00	M/U BHA, 4.625" OD, 4-blade concave inserted mill, 2 3/8" PH-6 B X 2 3/8" PAC B Double flapper bit sub, 1 Jt. 2 3/8" 5.96# P110 PH-6 tbg., 1.56" ID "RN"- Nipple, 2 3/8" PH-6 tbg to surface. Tagged kill plug @ 8,250' 268 jts.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/28/2014	8/29/2014	Drill out Kill plugs, and frac plugs 43, 42, 41

Start Time	End Time	Comment
00:00	01:30	Tagged Kill plug @8,250' with 268 jts, Tie back drill lines, PU swivel,
01:30	03:30	Tie back drill lines, PU swivel, While rigging up static lines for swivel we found the swivel's static lines rubbing the drill line, Tried to arrange lines so as not to rub together, but unable to keep them from rubbing, Called in and reported the problems, Shut down drill out operations to fix problems with wirelines, Will lay derrick down and weld new eyelets on crown of derrick on outer sides of crown sheaves, So as not to rub together and cut one or the other line while drill out plugs.
03:30	07:00	Shut down and wait on daylight to lower derrick and fix problem with the eyelets for static line for swivel, Will weld on new eyelets on crown.
07:00	11:00	Lower derrick, fix problem with the eyelets for static line for swivel, Raise derrick
11:00	15:00	P/U Power swivel, R/U Pump, establish circulation, drill out kill plug #2 @ 8250', jt. #268, 40K up wt. 30K down wt., 34K neutral wt., 1400 psi free torque, 1700 psi drill torque, 4 pts. WOB, 120 RPM, , 2.5 BPM in @ 2500 psi, 2.5 bbl out @ 2100 psi on 20/64" choke, 23 minutes to drill plug Kill plug #1 : @ 8300', jt. #270, 40K up wt. 30K down wt., 34K neutral wt., 1400 psi free torque, 1700 psi drill torque, 4 pts. WOB, 120 RPM, , 2.5 BPM in @ 3200 psi, 2.5 bbl out @ 3400 psi on 20/64" choke, 33 minutes to drill plug Circulate bottoms up 170 bbls.
15:00	18:00	P/U 38 Jts. 2 3/8" PH-6 tbg. t/plug # 43 @ 9480'
18:00	19:30	Tagged plug # 43 at 9,482' on jt # 308, Up weight 34, down weight 32, neutral 33. 1,500 free torque, 1,700 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.7 bbl out @2,950 psi on 22" choke. 41 minutes to drill plug. Pumped 10 bbls water with ¾ gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep.
19:30	20:30	Change rig transmission filters
20:30	22:30	Tagged plug # 42 at 9,682' on jt # 314, Up weight 35, down weight 32, neutral 33. 1,450 free torque, 1,900 drill torque. WOB:6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.7 bbl out @3,000 psi on 23" choke. 25 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep.
22:30	23:30	P/U 7 Jts. 2 3/8" PH-6 tbg. t/plug # 41 @ 9,891' Tagged plug # 41 at 9,891' on jt # 321, Up weight 35, down weight 34, neutral 43. 1,500 free torque, 1,700 drill torque. WOB:6-8 pts, RPM @ 120. 2.5 bbl in @ 3,900 psi, 2.7 bbl out @2,950 psi on 20" choke. 20 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep.
23:30	00:00	Working on snubbing units slips and leaking bag.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/29/2014	8/30/2014	Repair leaking bag, Drill out frac plugs.

Start Time	End Time	Comment
00:00	02:00	Working on leaking bag, and slips, broken line on slips.
02:00	06:00	Circulate well from10,158', for clean up. plug cuttings in returns, small amount of sand in samples. continue to circulate clean.
06:00	10:00	Hold PJSM, Install TIW valve, land tubing on rams, change out snubbing unit annular bag
10:00	10:30	P/U Power swivel, rig up pump, establish circulation
10:30	17:00	Drill out: Tagged plug #_40_ at _10,255'_____' on jt #333___, Up weight 39___, down weight 33___, neutral 34___. 1400____ free torque, _2200___ drill torque. WOB: _4__ pts, RPM @ _120_____. _2.2___ bbl in @ _4000_____psi, _3.0__ bbl out @_3400___psi on 25/64_____" choke. 43__ minutes to drill plug. Pumped _94.5_ bbls water with _3/4__ gal of vendor\chemical to _1000___ gals. Pumped 10__ bbl gel sweep. Drill out: Tagged plug #39__ at __10,630'_____' on jt #_345__, Up weight _36__, down weight _31__, neutral _32__. _1600___ free torque, _2200___ drill torque. WOB: _4__ pts, RPM @ _120_____. __2.2__ bbl in @ __4000____psi, _3__ bbl out @_3200___psi on 20/64_____" choke. 35__ minutes to drill plug. Pumped _77_ bbls water with _3/4__ gal of vendor\chemical to _1000___ gals. Pumped _10_ bbl gel sweep. Drill out: Tagged plug #_38_ at _10,800_____' on jt #_350__, Up weight _36__, down weight _31__, neutral _34__. _1500___ free torque, _2200___ drill torque. WOB: _4__ pts, RPM @ _120_____. 2.2____ bbl in @ _4000_____psi, _3__ bbl out @_3300___psi on 20/64_____" choke. 26__ minutes to drill plug. Pumped 57__ bbls water with 3/4___ gal of vendor\chemical to 1000____ gals. Pumped 10__ bbl gel sweep. Drill out: Tagged plug #_37_ at 11,045'_____' on jt #_358__, Up weight 35___, down weight 31___, neutral 33___. _1600___ free torque, 2200____ drill torque. WOB: 4___ pts, RPM @ 120_____. 2.5____ bbl in @ 3900_____psi, _3__ bbl out @3300____psi on 20/64_____" choke. 32__ minutes to drill plug. Pumped 80 __ bbls water with 3/4___ gal of vendor\chemical to 1000gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #36 at11,380' on jt #369, Up weight 35_, down weight29 , neutral33. 1600 free torque, 2300 drill torque. WOB:4 pts, RPM @ 120_. 2.5 bbl in @ 3900psi, 3 bbl out @3300_psi on 20/64" choke. 34 minutes to drill plug. Pumped 85 bbls water with3/4 gal of vendor\chemical to1000 gals. Pumped 20 bbl. gel sweep
17:00	18:00	Circulate bottoms up 230 bbls.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
18:00	22:30	Tagged plug # 35 at 11,674' on jt # 378, Up weight 38, down weight 31, neutral 33. 1,700 free torque, 1,900 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,250 psi on 18" choke. 34 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 34 @ 11,875'. Tagged plug # 34 at 11,875' on jt # 385, Up weight 39, down weight 32, neutral 33. 1,700 free torque, 2,100 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,250 psi on 16" choke. 61 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 5 Jts. 2 3/8" PH-6 tbg. Tag plug # 33 @ 12,040'. Tagged plug # 33 at 12,040' on jt # 390, Up weight 39, down weight 32, neutral 33. 1,500 free torque, 2,000 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,300 psi on 16" choke. 35 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 9 Jts. 2 3/8" PH-6 tbg Tag plug # 32 @ 12,300'.
Start Time	**End Time**	**Comment**
22:30	00:00	Tagged plug # 32 at 12,303' on jt # 399, Up weight 38, down weight 31, neutral 33. 1,700 free torque, 2,000 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,350 psi on 10" choke. 45 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 6 Jts. 2 3/8" PH-6 tbg. Tag plug # 43 @ 12,510' Tagged plug # 31 at 12,510' on jt # 405, Up weight 38, down weight 31, neutral 33. 1,750 free torque, 2,100 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,300 psi, 2.7 bbl out @3,200 psi on 18" choke. 44 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 43 @ 12,720'. Drill out: Tagged plug #_30_ at _12,720" on jt #412, Up weight 38, down weight31 , neutral 33 . 1800 free torque, 2100 drill torque. WOB: 4 pts, RPM @ _120. 2.5 bbl in @ _4000_psi, 2.5 bbl out @3300_psi on 20/64 _" choke. 43 minutes to drill plug. Pumped _107_ bbls water with 3/4 gal of vendor\chemical to1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #29__ at 12,920" on jt #420, Up weight 36, down weight31 , neutral33 . 1700 free torque, 2200 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4000_psi,2.6_ bbl out @_3300 psi on 20/64_" choke. 33 minutes to drill plug. Pumped 82.5 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped _10_ bbl gel sweep. Drill out: Tagged plug #_28_ at 13,126' on jt #425, Up weight36 , down weight31 , neutral 33. _1800 free torque, 2200 drill torque. WOB: _4__ pts, RPM @ __120. 2.5_ bbl in @ 4000_psi, __2.5_ bbl out @_3300_psi on 20/64 " choke. 43 minutes to drill plug. Pumped 107 bbls water with 3/4___ gal of vendor\chemical to 1000____ gals. Pumped 10__ bbl gel sweep.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/30/2014	8/31/2014	Drill out frac plugs,

Start Time	End Time	Comment
00:00	02:00	Circulating bottoms up from 12,510', 220 bbls. With two 10 bbls sweeps.
02:00	08:00	Drill out: Tagged plug #_27_ at 13,330" on jt #432, Up weight 38, down weight30 , neutral33 . 1700 free torque, 2500_ drill torque. WOB: _4__ pts, RPM @ _120_. _2.5_ bbl in @ _4100_psi, _3__ bbl out @_3400 psi on _20/64____" choke. 30__ minutes to drill plug. Pumped75 bbls water with 3/4_ gal of vendor\chemical to _1000 gals. Pumped 10__ bbl gel sweep. Drill out: Tagged plug #_26_ at 13,500" on jt #438, Up weight 37, down weight _31, neutral _33__. _1600 free torque, 2600_ drill torque. WOB: __4_ pts, RPM @ 120. __2.2__ bbl in @ _4100_psi, _2.5__ bbl out @_3300___psi on _20/64____" choke. 27__ minutes to drill plug. Pumped 87__ bbls water with _3/4__ gal of vendor\chemical to _1000___ gals. Pumped _10_ bbl gel sweep.
08:00	09:30	Circulate bottoms up 280 bbls.
09:30	16:00	Drill out: Tagged plug #25 at 13,750" on jt #446, Up weight _38, down weight _31, neutral _34. __1900 free torque, 2600 drill torque. WOB: _4_ pts, RPM @ __120. _2.25 bbl in @ 3900 psi, _2.5 bbl out @3300 psi on 20/64" choke. 72 minutes to drill plug. Pumped 172 bbls water with 3/4 gal of vendor\chemical to1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #24 at _13,953' on jt #_452, Up weight 39, down weight _30, neutral 34. 1700 free torque, 2500 drill torque. WOB: _4 pts, RPM @ _120. 2.2 bbl in @ 3800 psi, 2.5 bbl out @3300 psi on __20/64" choke. 36 minutes to drill plug. Pumped 80_ bbls water with _3/4__ gal of vendor\chemical to _1000 gals. Pumped _10_ bbl gel sweep. Drill out: Tagged plug #_23 at 14,207' on jt #460, Up weight _38, down weight 30, neutral 33. 1700 free torque, 2700 drill torque. WOB: _4 pts, RPM @ _120. _2.2 bbl in @ 4000 psi, _2.5_ bbl out @_3300 psi on 20/64" choke. 50 minutes to drill plug. Pumped 126 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #_22 at 14,450' on jt #468, Up weight 38, down weight 32, neutral 34. _1800 free torque, _2600 drill torque. WOB: _4 pts, RPM @ _120. _2.2 bbl in @ _3900 psi, _2.5 bbl out @_3300 psi on 20/64" choke. 42 minutes to drill plug. Pumped 100 bbls water with _3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #21 at 14,639' on jt #475, Up weight 38, down weight 31, neutral 34. 1800 free torque, 2700 drill torque. WOB: 4 pts, RPM @ 120. 2.2 bbl in @ 4200 psi, 2.5 bbl out @ 3300 psi on 18/64 " choke. 29 minutes to drill plug. Pumped 64 bbls water with 3/4 gal of vendor\chemical to1000 gals. Pumped 10 bbl gel sweep.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
16:00	17:30	Circulate bottoms up 300 bbls.
17:30	00:00	Tagged plug # 20 at 14,870' on jt # 482, Up weight 38, down weight 31, neutral 34. 1,800 free torque, 2,300 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,300 psi on 25" choke. 36 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 6 Jts. 2 3/8" PH-6 tbg. Tag plug # 19 @ 15,080' Tagged plug # 19 at 15,080' on jt # 488, Up weight 38, down weight 31, neutral 34. 1,900 free torque, 2,200 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,100 psi, 2.5 bbl out @3,300 psi on 25" choke. 25 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 18 @ 15,306' Tagged plug # 18 at 15,306' on jt # 496, Up weight 40, down weight 31, neutral 34. 2,000 free torque, 2,200 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,300 psi on 21" choke. 48 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 6 Jts. 2 3/8" PH-6 tbg. Tag plug # 17 @ 15,483' Tagged plug # 17 at 15,483' on jt # 502, Up weight 40, down weight 31, neutral 34. 1,700 free torque, 2,100 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,300 psi on 24" choke. 61 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep. P/U 8 Jts. 2 3/8" PH-6 tbg. Tag plug # 16 @ 15,710' Tagged plug # 16 at 15,710' on jt # 509, Up weight 40, down weight 31, neutral 40. 1,800 free torque, 2,300 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,200 psi on 20" choke. 53 minutes to drill plug. Pumped 10 bbls wa

Report Start Date	Report End Date	24hr Activity Summary
8/31/2014	9/1/2014	Drill out frac plugs,

Start Time	End Time	Comment
00:00	02:00	Circulate bottoms up, 350 bbls.

Start Time	End Time	Comment
02:00	06:00	Tagged plug # 15 at 15,910' on jt # 515, Up weight 40, down weight 31, neutral 40. 1,800 free torque, 2,300 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @3,200 psi on 20" choke. 53 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep P/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 14 @ 16,110' Tagged plug # 14 at 16,110' on jt # 522, Up weight 40, down weight 31, neutral 35. 2,200 free torque, 2,500 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 3,900 psi, 2.5 bbl out @3,300 psi on 20" choke. 47 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep sweepP/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 13 @ 16,343' Tagged plug # 13 at 16,343' on jt # 529, Up weight 40, down weight 31, neutral 35. 2,200 free torque, 2,500 drill torque. WOB: 6-8 pts, RPM @ 120. 2.5 bbl in @ 3,900 psi, 2.5 bbl out @3,300 psi on 21" choke. 44 minutes to drill plug. Pumped 10 bbls water with 3/4 gal of vendor\chemical to 1,000 gals. Pumped 10 bbl gel sweep P/U 6 Jts. 2 3/8" PH-6 tbg. Tag plug # 12 @ 16,513' Drill out: Tagged plug #12 at 16,513' on jt #536, Up weight 38, down weight 31, neutral36 . 2000 free torque, 2500 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @4000 psi, _2.5 bbl out @3300 psi on 21/64" choke. 45 minutes to drill plug. Pumped 112 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #11 at16,723' on jt #542, Up weight 37, down weight 30, neutral 34. 2300 free torque, 2800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4100 psi, 2.5 bbl out @3300 psi on 23/64" choke. 46 minutes to drill plug. Pumped 115 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep.
06:00	08:30	Circulate bottoms up 340 bbls.

Start Time	End Time	Comment
08:30	16:00	Drill out: Tagged plug #10 at 16,950 on jt 549 Up weight 39 down weight 31 neutral 34 free torque, _2200 drill torque. WOB: 4 pts, RPM @ 120 . 2.2 bbl in @ 4000 psi, 3.1 bbl out @3200 psi on 21 choke. 43 minutes to drill plug. Pumped 107 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #9 at 17,120' on jt #554, Up weight 37 down weight 30 neutral 34, 2300 free torque, 2900 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4000 psi, 3 bbl out @3100 psi on 21/64" choke. 46 minutes to drill plug. Pumped 128 bbls water with3/4 gal of vendor\chemical to1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #8 at17,290' on jt #560, Up weight 39, down weight 30, neutral 34. 2400 free torque, 2900 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4000 psi, 2.5 bbl out @3300 psi on 21/64" choke. 33 minutes to drill plug. Pumped 83 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #7 at 17,485' on jt #566, Up weight 40, down weight 32, neutral 34. 2500 free torque, 2900 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4000 psi, 2.5 bbl out @3300 psi on 21/64" choke. 27 minutes to drill plug. Pumped 68 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. Drill out: Tagged plug #6 at 17,650' on jt #571, Up weight 40, down weight 32, neutral 34. 2300 free torque, 2900 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4000 psi, 2.5 bbl out @ 3300 psi on 25/64" choke. 26 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep.
Start Time	End Time	Comment
16:00	18:00	Circulate bottoms up360 bbls.

Start Time	End Time	Comment
18:00	00:00	Tagged plug # 5 at 17,833' on jt # 578, Up weight 38 , down weight 30, neutral 34. 2,500 free torque, 2,800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @ 3,300 psi on 21/64" choke. 30 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel sweep. P/U 14 Jts. 2 3/8" PH-6 tbg. Tag plug # 4 @ 18,264' Tagged plug # 4 at 18,264' on jt # 591, Up weight 50 , down weight 35, neutral 38. 2,500 free torque, 2,800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,200 psi, 2.5 bbl out @ 3,300 psi on 26/64" choke. 64 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel swe. P/U 8 Jts. 2 3/8" PH-6 tbg. Tag plug # 3 @ 18,512' Tagged plug # 3 at 18,512' on jt # 599, Up weight 50 , down weight 35, neutral 38. 2,500 free torque, 2,900 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,000 psi, 2.5 bbl out @ 3,300 psi on 25/64" choke. 44 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel swe. P/U 7 Jts. 2 3/8" PH-6 tbg. Tag plug # 2 @ 18,730' Tagged plug # 2 at 18,730' on jt # 606, Up weight 50 , down weight 36, neutral 40. 2,200 free torque, 2,800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,500 psi, 2.5 bbl out @ 3,300 psi on 24/64" choke. 41 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel swe. P/U 10 Jts. 2 3/8" PH-6 tbg. Tag plug # 1 @ 19,025'

Report Start Date	Report End Date	24hr Activity Summary
9/1/2014	9/2/2014	POH laying down and Snubbing out

Start Time	End Time	Comment
00:00	03:00	Tagged plug # 1 at 19,025' on jt # 616, Up weight 50 , down weight 36, neutral 40. 2,200 free torque, 2,800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,500 psi, 2.5 bbl out @ 3,300 psi on 20/64" choke. 64 minutes to drill plug. Pumped 65 bbls water with 3/4 gal of vendor\chemical to 1000 gals. Pumped 10 bbl gel swe. P/U 3 Jts. 2 3/8" PH-6 tbg. RSI @ 19,130' RSI Tagged RSI at 19,130' on jt # 619, Up weight 50 , down weight 36, neutral 40. 2,200 free torque, 2,800 drill torque. WOB: 4 pts, RPM @ 120. 2.5 bbl in @ 4,500 psi, 2.5 bbl out @ 3,300 psi on 20/64" choke.
03:00	07:30	Circulate bottoms up 2.5 times, pump 870 bbls.
07:30	18:00	Lay down 5 jts. 2 3/8" PH-6 tbg. w/power swivel, (no drag), Rig down power swivel, TOOH Lay down 318 jts. 2 3/8" PH-6 work string t/9300'
18:00	20:00	P/U Power swivel, rig up pump, circulate bottoms up
20:00	22:30	Continue to pull tbg to 5,554', SICP 3,600 Psi, Shut in well and shut down for night, Wait on daylight to finish snubbing out of hole. Pull maintenance on equipment and monitor well TOOH Lay down 439 jts. 2 3/8" PH-6 work string to 5,554', (shut in pressure 3,600 Psi)
22:30	00:00	Wait on daylight to finish snubbing out of hole. Pull maintenance on equipment and monitor well.

Report Start Date	Report End Date	24hr Activity Summary
9/2/2014	9/3/2014	Snub tbg out of hole, Change rams, RIH prod string

Start Time	End Time	Comment
00:00	07:30	Wait on daylight to snubbing out of hole. Pull maintenance on equipment and monitor well. Steamed off BOP & Snubbing unit of paraffin.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
07:30	13:00	Hold PJSM, Snub out of hole with 180 jts. 2 3/8" PH-6 workstring, lay down BHA, Shut well in, (Mill in fair condition)
13:00	16:00	Change over from/2 3/8" - to/2 7/8", (pipe rams, slipdies, handling equipment, ETC.)
16:00	18:30	Pressure test BOP (bottom & top pipe rams) 250 psi low /10,000 psi high, Snubbing Unit (bottom & top pipe rams) 250 psi low/ 10,000 psi high & Annular bag t/3500 psi)
18:30	00:00	M/U BHA, 2 7/8" Notched collar (.44'), 2 7/8" 6.5# L-80 EUE Pup jt (2.10'), 2 7/8" 6.5# L-80 EUE Perf sub (4.14'), Weatherford 10k ceramic burst disc (.79'), 2 7/8" XN Nipple (2.313" ID w/2.205" no-go) (1.25'), 1 jt. 2 7/8"6.5# L-80 EUE Tubing (32.32'), 2 7/8" X Nipple (2.313" ID) (1.18'), 268 jts of 2 7/8"6.5# L-80 EUE Tubing (8641.71') to surface, Tbg hanger(.50'). EOT @ 4870.81' at report time.

Report Start Date	Report End Date	24hr Activity Summary
9/3/2014	9/4/2014	Snub in tbg, hang off, ND Snubbing unit, NUtree, POP

Start Time	End Time	Comment
00:00	04:30	Finish M/U BHA, 2 7/8" Notched collar (.44'), 2 7/8" 6.5# L-80 EUE Pup jt (2.10'), 2 7/8" 6.5# L-80 EUE Perf sub (4.14'), Weatherford 10k ceramic burst disc (.79'), 2 7/8" XN Nipple (2.313" ID w/2.205" no-go) (1.25'), 1 jt. 2 7/8"6.5# L-80 EUE Tubing (32.32'), 2 7/8" X Nipple (2.313" ID) (1.18'), 268 jts of 2 7/8"6.5# L-80 EUE Tubing (8641.71') to surface, Tbg hanger(.50'). EOT @ 8,711.41',
04:30	05:00	Landed tubing hanger, EOT @ 8,711.43'
05:00	10:00	ND snubbing unit, ND BOP's, NU Well Head.
10:00	10:30	Rig up B&C Quick Test, Pressure test Production tree 10,000 psi,
10:30	11:00	R/U Cameron lube out 2-way check
11:00	11:30	Rig down Nabors Rig #1425, lower derrick, MIRU on Ute Tribal 14-9-4-3-2 WH
11:30	12:00	Rig up pump, pressure up on tubing, burst disc 3800#, pump tubing volume 50 bbls.
12:00	12:30	Production foreman on location, turn well over to production

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626269

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
UTE TRIBAL 13-9-4-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013520790000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0276 FNL 1452 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 7/29/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: Daily Drilling Reports

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As per our conversation with Dustin Doucet, attached find the Daily Drilling Reports for the above mentioned well.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech
SIGNATURE		**DATE**
N/A		1/21/2016

RECEIVED: Jan. 21, 2016

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
4/13/2014	4/14/2014	Set 60' of 20" conductor pipe.

Start Time	End Time	Comment
00:00	00:00	Pete Martin Rig #16 spudded 26" hole on 04/13/2014 and drilled to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Redi Mix. Kylan Cook notified UDOGM and BLM by e-mail @ 23:00 PM on 04/11/2014 to spud conductor hole on 04/13/2014.

Report Start Date	Report End Date	24hr Activity Summary
4/16/2014	4/17/2014	MIRU Pro Petro Rig #10. Start picking up directional BHA. Trip in hole to 60' GL. Prime mud pumps.

Start Time	End Time	Comment
00:00	21:30	MIRU Pro Petro Rig #10.
21:30	23:30	Start picking up directional BHA. Trip in hole to 60' GL.
23:30	00:00	Prime mud pumps. Fix leaks in flow line.

Report Start Date	Report End Date	24hr Activity Summary
4/17/2014	4/18/2014	Prime mud pumps. Fix leaks in flow line. Spud 17 1/2" hole @ 01:00 AM. Drill from 60' GL to 650' GL. Replace packing in top drive. Drill from 650' GL to 1160' GL. Surface hole surveys are ground level.

Start Time	End Time	Comment
00:00	01:00	Prime mud pumps. Fix leaks in flow line.
01:00	09:00	Spud 17 1/2" hole @ 01:00 AM on 04/17/2014. Drill from 60' GL to 470' GL while picking up directional tools. First sign of water flow was while making connection at 390' GL. Flowing about 6.5 gallons per minute. Water sample was collected.
09:00	09:30	Change rubber size in rotating head.
09:30	11:00	Drill from 470' GL to 650' GL.
11:00	13:30	Replace packing in top drive.
13:30	14:00	Drill from 650' GL to 710' GL. Slide: 650' to 680' - TFO=320M Slide: 680' to 710' - TFO=300M
14:00	14:30	Work on pit pump.
14:30	15:00	Drill from 710' GL to 740' GL.
15:00	15:30	Work on pit pump. Replace circuit breaker on electric motor.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
15:30	20:30	Drill from 740' GL to 1040' GL. Slide: 740' to 760' - TFO=320M Slide: 770' to 860' - TFO=320M Slide: 890' to 950' - TFO=320M
20:30	21:00	Change swab in mud pump.
21:00	23:30	Drill from 1040' GL to 1160' GL.
23:30	00:00	Change swab in mud pump.

Report Start Date	Report End Date	24hr Activity Summary
4/18/2014	4/19/2014	Drill from 1160' GL to 1220' GL. Mud pump repair. Drill from 1220' GL to1340' GL. Mud pump repair. Drill from 1340' GL to 1370' GL. Change swab. Drill from 1370' GL to 1460' GL. Change swab. Drill from 1460' GL to 1550' GL. Surface hole surveys are ground level.

Start Time	End Time	Comment
00:00	01:30	Drill from 1160' GL to 1220' GL.
01:30	02:30	Tighten pod bolts on mud pump.
02:30	05:30	Drill from 1220' GL to 1340' GL. Slide: 1315' to 1340' - TFO=90M
05:30	14:30	Go through centrifugal charge pump. Found gravel in pump. Change swabs.
14:30	15:30	Drill from 1340' GL to 1370' GL. Slide: 1340' to 1370' - TFO=90M
15:30	16:30	Change swab in mud pump.
16:30	20:00	Drill from 1370' GL to 1460' GL.
20:00	21:30	Change swab in mud pump. Work on rod washers.
21:30	00:00	Drill from 1460' GL to 1550' GL.

Report Start Date	Report End Date	24hr Activity Summary
4/19/2014	4/20/2014	Drill from 1550' GL to 1625' GL. Change swab and liner. Drill from 1625' GL to TD @ 1635' GL. Circulate. Start wiper trip. Replace hydraulic hoses on rig. Finish wiper trip. Circulate. Replace oil cooler on rig.

Start Time	End Time	Comment
00:00	02:30	Drill from 1550' GL to 1625' GL.
02:30	03:00	Change swab and liner in mud pump.
03:00	03:30	Drill from 1625' GL to TD @ 1635' GL. TD 17 1/2" hole @ 03:30 AM on 04/19/2014.
03:30	04:30	Circulate for wiper trip.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
04:30	05:00	Start wiper trip out to 1550' GL.
05:00	12:30	Replace hydraulic hoses on rig.
12:30	18:00	Make wiper trip out to drill collars. Had to wash and ream 540' off bottom. No tight hole while tripping back to bottom. Tag 150' of fill tripping back to bottom.
18:00	19:30	Circulate to trip out of hole and run surface casing.
19:30	00:00	Lost hydraulic oil cooler on rig. Replace oil cooler.

Report Start Date	Report End Date	24hr Activity Summary
4/20/2014	4/21/2014	Finish replacing oil cooler. Trip out of hole from 1635' to 1370'. Replace hydraulic hoses. Finish tripping out of hole. Run surface casing. Cement surface casing. Wait on cement.

Start Time	End Time	Comment
00:00	01:30	Finish replacing oil cooler on rig.
01:30	02:30	Trip out of hole from 1635' GL to 1370' GL. Tight hole while tripping.
02:30	07:00	Replace hydraulic hoses on rig.
07:00	10:30	Finish tripping out of hole to run surface casing. Lay down directional BHA. Had to wash and ream first 330' off bottom.
10:30	11:30	Rig up to run surface casing. First sign of water flow was while making connection at 390' GL. Well was not flowing at the start of running casing.
11:30	17:30	Run 38 joints (1612.99') of 13 3/8", 54.5#, J-55, BT&C casing with Top-Co guide shoe and float collar. 14 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface. Landed @ 1612.99' GL, Float Collar @ 1568.89' GL. Had to wash last 3 joints of casing down.
17:30	18:30	Circulate with casing on bottom.
18:30	20:00	Weld top cap from casing to conductor pipe.
20:00	20:30	Circulate casing with rig pump. Rig up Pro Petro Cementers.
20:30	22:30	Cement Job: Pumped 10 bbls fresh water & 40 bbls gelled water flush ahead of cement. Lead: Mixed and pumped 550 sacks (280 bbls) of Type V Cement with 16% Gel, 10 #/sk Gilsonite, 2#/sk Gr3, 3% Salt, and 1/4 #/sk Flocele. Mixed cement @ 12.0 ppg with yield of 2.86 cf/sk. Tail: Mixed and pumped 675 sacks (138 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 #/sk Flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 243 bbls fresh water. Bumped plug with 720# @ 22:25 PM on 04/20/2014. Floats held. 80 bbls cement to surface. Shut in well after pumping stopped. Kylan Cook notified UDOGM and BLM of the surface casing & cement job via e-mail on 04/17/2014 @ 18:30 PM.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
22:30	00:00	Wait on cement. Prepare to move rig over (Pad Well) to Ute Tribal 14-9-4-3-2WH.

Report Start Date	Report End Date	24hr Activity Summary
4/21/2014	4/22/2014	Wait on cement. Prepare to move rig over (Pad Well) to Ute Tribal 14-9-4-3-2WH. Release rig @ 06:30 AM on 04/21/2014.

Start Time	End Time	Comment
00:00	06:30	Wait on cement. Prepare to move rig over (Pad Well) to Ute Tribal 14-9-4-3-2WH. Release rig @ 06:30 AM on 04/21/2014.

Report Start Date	Report End Date	24hr Activity Summary
5/2/2014	5/3/2014	Finish preparation of location for drilling rig.

Start Time	End Time	Comment
00:00	00:00	04/26/2014 - Drill Mouse Hole. 04/29/2014 - Final blade location. 05/01/2014 - Weld on Wellhead. 05/02/2014 - Cement cellar floor up to the top of base plate on wellhead. SURFACE HOLE DIRECTIONAL SURVEY DEPTHS ARE GROUND LEVEL. Location is ready for drilling rig.

Report Start Date	Report End Date	24hr Activity Summary
5/19/2014	5/20/2014	Rig Down Prep Derrick for Scopping Down, Scope Derrick down, prep rig for AM Move to new location.

Start Time	End Time	Comment
18:00	00:00	Rig Down Prep Derrick for Scopping Down, Scope Derrick down, prep rig for AM Move to new location.

Report Start Date	Report End Date	24hr Activity Summary
5/20/2014	5/21/2014	Rig Down water, power lines, HPU, LAy over Derrick, MI Eq. to new location, set in place, Scope down Sub, Lower Derrick, Remove "A" Legs & Pulled Center Steal.

Start Time	End Time	Comment
00:00	06:00	RD water lines, power down rig, rig down power cords to HPU and festoon, take off sub wind walls, prepare to lay down sub and derrick.
06:00	06:30	PJSM for rig move.
06:30	00:00	Squat sub, lower derrick, roll up all lines on derrick, prepare for cranes to move. Move in Equipment & Spot in place. Held Safety Mtg. w/ JD, Pioneer & NFX, LD Derrick from Floor, & Tear down, Haul to new location, RU Mats, Set Gens, /Water tank & RU Pits. Run lines/Elec. Had trouble remoing center steel pins worked for 4 hrs to remove. SD Total loads hauled 12 loads, Equipment to Location: 1 pole trucks, 1 bed trucks, 3 haul truck, 2 forklifts 2 Cranes, 2 Pushers, 0 Pilots, Poineer had 2 crews on days, 1 Crew on nights.Held.

Report Start Date	Report End Date	24hr Activity Summary
5/21/2014	5/22/2014	Move In rig componants from old location and set in then rig up. Mast is assembled and ready to pin on sub, Stop trucks and cranes at 21:00 for dark. Continued working on back yard rig up and inspection, welders working on flow line and Shaker slides, Rig crew clean and prepare derrick.

Start Time	End Time	Comment
00:00	06:00	Clean derrick, organize location, change ropes in board, pick up trash, boards.
06:00	06:30	PJSM w\JD Field services, JC crane, pioneer rig crews and pushers and Newfield company rep.
06:30	14:30	Continue breaking down sub. Load out derrick, subs, center steel, mats and change house and move to new locations. Continue rigging up mats, electric, subs and center steel and ST-80. Welder working on flow line and setting Peak equipment. Rigged up sub and hydraulics, Fired generators and powered sub structure.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
14:30	18:00	(STOP) -Truck Hauling Derrick to new location got off center of location road into soft fill and began to sink on passenger side and derrick was in danger of tipping over. Stopped job Gin pole truck leaving location to support derrick but the driver did not lower his Gin Poles enough to safely drive under the overhead powerlines and the lower static cable on the powerline was pulled loose from power poles when the top of the ginpulls struck it. Job was stopped again and downed power line was treated as a live wire until it could safely be determined to be non -energized. Tied gin truck on to derrick to prevent derrick from tipping until a crane could be moved over and rigged up to lift and level derrick. Held safety stand down with all personell.
18:00	21:00	(START) Bring derrick onto Location and hald a critical lift Safety meeting and JSA with trucks, cranes and rig crew. Lift derrick and Spool off of trailer and Install A-Leg section on derrick. Stopped trucks and cranes at 21:00
21:00	00:00	Rig up Pumps and Mud tanks as well as all electrical and circulating systems in back yard. Perform Prespud inspection of pump and tank area as well as generator and VFD area. Haul in 20% KCL brine and Fresh water, fill Pits and Premix with fresh water. Crews working on rigging up hydralics and cleaning Derrick and making mast ready to set on floor and stand derrick.

Report Start Date	Report End Date	24hr Activity Summary
5/22/2014	5/23/2014	Clean and prepare derrick and sub for rig up, Hold Safety meeting and set derrick on floor and rig up, released trucks at 12:00 and released last crane at 1600, continue rigging up and preparing for Nipple-up

Start Time	End Time	Comment
00:00	06:00	Continue to Rig up Pits and Pumps, Fill pits with 500 BBls fresh water then fill premix with 300 BBls, Iowa Tank Lines and 4C reclamation hauling water in. Wash derrick and prepare for raising mast. Begin Bleeding Hydraulic system on derrick at 03:00. Perform pre spud inspection on Generators and VFD house, pre spud inspect Pits and Pumps.
06:00	06:30	PJSM, Moving the rig. With rig crews, JC crane, Newfield company rep, JD field services.
06:30	16:00	Install derrick, top dog house, lift sub, install derrick board, Raise mast, install handrails and floor plates, scope up sub, rig up all floor power, air and hydralic, set in catwalk and front stompers, set in accumulator parts house, set stairs sub braces, wind walls and continue rigging up back yard, electric lines and water lines. Prepare derrick, install bop's under sub base. Installed flow line and buster lines with crane, Prepare to scope mast. Release first crane at 10:00, release JD field services trucks at 12:00, one crane on location hanging wind walls and misc equipment released at 16:00.
16:00	00:00	(Start) Rig up- (last crane released at 16:00) - Hold Pre Job safety Meeting with rig crew, scope out mast and rig up rig floor and Top Drive. Hook upService loop and stand BOP up under sub with Wrangler. Rig up Rig floor and scaffolding around BOP, Begin changing RBOP and Saver sub on TDS, rig up service loop and Stand pipe. Perform Pre spud inspection on complete rig Welders Working on scaffolding under sub and making up 6" bypass line for cement to return to Solids 3 sided bin (Near miss related hazard mitigation)

Report Start Date	Report End Date	24hr Activity Summary
5/23/2014	5/24/2014	Rig up Floor and make up new saver sub and R-BOP then install lock rings and rig up top drive perform Pre spud and accepted rig for day work. Nipple up BOPE then repair ST-80 and Test BOP. Pick up and scribe directional tools. BOP Tested to 5m Specifications

Start Time	End Time	Comment
00:00	06:00	Continue rig up rig floor, Make up Saver sup and R-Bop Valve install service loop and standpipe, Install lock rings on top Drive and test everything to make sure proper functionality.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
06:00	10:30	(Start) NU BOPE - Begin nipple up with B&C Quicktest, Make uyp flowline and install kill line and hydraulic controle lines. Instal ckoke line and make up all connections Per API spec.
10:30	11:30	(STOP) Rig repair - Hold JSA and Safety Meeting with J&C crane, Rig up Crane and swing ST-80 off rig floor, Swing new ST-80 onto floor, Rig down crane, Hook up ST-80 and test run, (functioning normal)
11:30	18:00	(START) - Test BOP/ CSG, Pressure test BOPE with B&C Quick test Test 1: Upper pipe rams, Hydraulic IBOP, Choke line check Valve, Inside manual Choke line valve At 250 PSI low and 5000 PSI high (Kill line Check valve failed) Closed Inside Kill line gate valve to complete test. Test 2: Upper Pipe rams, Manuel IBOP, Outside Kill Valve and HCR at 250 low and 5000 PSI high Test 3 Dart Valve to 250 PSI low and 500 PSI high Test 4: Lower Pipe Rams, TIW Valve Outside Kill Line Valve, Choke line, Inside choke manifold and Panic line valves and Gauge loop Valve to 250 Low and 5000 PSI high Test 5: Lower Pipe Rams, Outside Kill Line valve, Choke line, Outside Choke manifold Valves and outside panic line valve to 250 low and 5000 PSI high Test 6 : Pull Drill pipe and test Blind rams, Derrick Man Changing Swab's and Liners in Mud Pumps to 6"
18:00	19:00	(STOP) Repair Rig - BOP change out Choke line Check valve
19:00	21:00	(Start) Test BOP / Casing, Test Blind rams and Choke line check valve to 250 PSI low and 5000 PSI high, Run test Joint and sting into Plug Test Hydril to 250 Low and 3500 PSI high Test Super choke and Manuel choke to 500 PSI, Pull Test Plug and Fill BOP with fresh water Close Blind rams and test casing to 250 low and 1500 PSI high for 30 Minutes. Perform accumulator function test.
21:00	22:00	(START) Handle BHA / Pick up drill String - Install wear Bushing in well head and tighten 4 Locking pins.
22:00	00:00	Handle BHA / Pick up directional tools, (JSA and PJSM on working with High torque and rig tongs) Torque bit to 70 K with, torque 7 5/8" API reg. crossover on bottom of motor to 83K. Orient tools.

Report Start Date	Report End Date	24hr Activity Summary
5/24/2014	5/25/2014	Pick up BHA and drill pipe and trip in hole,Tag cement at 1565 and Drill out to 1675', Hold BOP drill then perform FIT to 12 PPG EMW. Drill from 1675 to 2200' Trouble Shoot and repair issues with VFD codes and minor pump repairs then continue drilling from 2200 to 3312'

Start Time	End Time	Comment
00:00	04:30	Pick up HWDP and Drilling Jars to 1060' then Pick up Drill pipe and trip in hole to tag cement at 1565'
04:30	05:30	(START) Drill cement from 1565 to float collar at 1593'
05:30	06:00	Lubricate rig - Service TDS System
06:00	08:00	Continue Drilling Cement and shoe Track then Drill 10' of hew hole to 1675' Circulate hole clean(Verify MW @ 8.5 ppg), spot Viscus pill across open hole Hold Safety Meeting with rig crew and B&C Quicktest then perform BOP drill closeing Hydrill and open HCR valve. Pump in with B&C Quictest truck at 11 GPM Monitoring steady pressure increase to 300 PSI, Stop Pumping with 55 Gallons pumped in and hold for 5 Minutes, pressure bleed-off to 293 PSI, Bleed off and rig down B&C set Choke Manifold valves for soft shut in against Supper Choke.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
08:00	08:30	(START) Drilled from 1675' to 1726 with 100% rotation with Flow rate at 585 Gpm with 1750 PSI
08:30	09:00	Lubricate Rig - Service Top Drive, ST-80, Blocks, Crown, Catwalk.
09:00	14:00	Drilled 435' of 12 1/4" hole from 1726 to 2161 with 908 Gpm with 3120 Psi on bottom with 450 diff. Avg ROP: 87 ft/ hr Slide from 2105' to 2134', 29' @ 320 MTF in 1 hr. Total Rotate: 406' in 4 hr. MW 8.6 Putting ez-mud down Drill pipe on connections. Started running 2 centrifuges at 2100' Re-dress Shakers with API 175 screens to keep Shakers from running over Trouble shoot VFD and drillers console for coding Issue.
14:00	14:30	(STOP) Rig Repair - Replace 2" Bleed off valve on #2 Mud pump. Trouble shoot VFD and drillers station with Pioneer Electrician Mac Jones to correct Coding issue that is Killing power to Top Drive and Mud pumps while drilling
14:30	15:00	(START) Drilled 38' of 12 1/4" hole from 2161 to 2199' 100% Rotary Rotate: 38' in .5 hours
15:00	15:30	(Stop) Rig Repair - Top drive, REinstall Dies in Grabber on TDS
15:30	18:30	(START) Drill 333' of 12 1/4" Hole from 2199' to 2532' at with 908 GPM with 3300 PSI with 450 Diff at 35 to 40 k Wob. MW: 8.6 ppg Slides: from 2390 to 2420 - 30' @ 270 MTF in .5 hr, Rotate: 303' in 2.5 Hr Adding EZ- Mud down Drill pipe on connections / Peak running strip mode.
18:30	19:00	(Stop) Rig Reopair Pumps- Change liner gasket on #1 Mud Pump.
19:00	00:00	(START) Drill 780' of 12 1/4" Hole from 2532' to 3312' at with 908 GPM with 3400 PSI with 450 Diff at 35 to 40 k Wob. MW: 8.8 ppg Rotate: 780' in 5 Hr Adding EZ- Mud down Drill pipe on connections / Peak running strip mode. Pumped 25 bbl high vis Sweep at 2700' to clean hole with good results (increased ROP less drag and pressure) Pumped 25 bbl sweep at 3200' (good results)

Report Start Date	Report End Date	24hr Activity Summary
5/25/2014	5/26/2014	Drilling 12 1/4" hole from 3312' to 5436' Cleaning rig.

Start Time	End Time	Comment
00:00	05:30	Drilled 597' of 12 1/4" Hole from 3312' to 3909' at 87.3 FPH Avg. with 908 GPM with 3800 PSI with 450 Diff at 35 to 40 k Wob. Adding EZ- Mud down Drill pipe on connections / Peak running strip mode.
05:30	06:30	Rig service (JSA & Personel lift permit) Lubricate and inspect TDS, st-80, Catwalk, and Draw works

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
06:30	00:00	Drilled 1527' of 12 1/4" Hole from 3909' to 5436' at 87.3 FPH Avg. with 908 GPM with 3800 PSI with 450 Diff at 35 to 40 k Wob. Reduced Flow rate at 4800' to 870 GPM to keep Max pump pressure below 3800 psi Slides: f/4116' - 4156 (40' in .75 Hr) @ 300 MTF f/4475 - 4525 (50' in .75 hr) @ 270 MTF f/4761 - 4811 (50' in 1.25 hr.) @ 300 MTF f/5138 - 5183 (45' In 1 hr) @ 310 MTF f/5232 - 5262 (30' in 1 hr) @ 320 MTF f/5244 - 5436 (14' in 1 hr)@ 280 MTF Total Slides:189' in 5 hr Rotate: 1338' in 12.5 Hr MW holding at 9.0 ppg Adding EZ- Mud down Drill pipe on connections / Peak running strip mode. / Changed 6 screens on 3 shakers to 200 Mesh Pumped 25 bbl high vis Sweep at 4200', 4700', 5200' to clean hole with good results (increased ROP less drag and pressure) Changed shaker screens on #2 Shaker to 200 API Changed RPM on 5500 Cent and 718 Cent to 1500 RPM at 15:30 to strip more Clays and try to drop weight of mud.

Report Start Date	Report End Date	24hr Activity Summary
5/26/2014	5/27/2014	Drilling 12 1/4" hole from 5436' to 5642', Troble shoot Bit and Motor, (Possible motor failure or RO Bit) pull out of hole, inspect and lay down Mud motor and Bit (Motor OK/ Bit rung out) Pick up new bit and motor, Trip in hole to 5510 ' Wash to bottom and drill from 5642' to 5710'

Start Time	End Time	Comment
00:00	04:00	Drilled 134' of 12 1/4" Hole from 5436' to 5570' at 33.5 FPH Avg. with 870 GPM with 3800 PSI with 450 Diff at 35 to 40 k Wob. Slides: f/5436' - 5458 (22' in .5 Hr) @ 320 MTF f/5517' - 5560' (43' in 1.5 hr) @ 320 MTF Total Slides:65' in 2 hr Rotate: 69' in 2 Hr MW holding at 9.0 ppg Adding EZ- Mud down Drill pipe on connections / Peak running strip mode @ 1500 RPM.
04:00	04:30	(STOP) Unplanned - Work tight hole. Drilled Trona Marker at 5570' Stuck pipe, Stopped pumps and jarde up with 50 K overpull, Sting came free, Break circulation with 870 GPM and wash and ream from 5550' to 5570' with 45 rpm to clean up tight spot.
04:30	05:00	(Start) Drilled 42' of 12 1/4" hole from 5570 to 5612 at 84 fph avg. with 870 gpm and 450 diff. MW @ 9 ppg
05:00	05:30	Rig service - (JSA & Personnel lift permit) Lubricate draw works TDS and ST-80 Tear-down and visually inspect #1 Mud pump fluid end (No repairs needed)
05:30	06:00	(Start) Drilled 30' of 12 1/4" hole from 5612 to 5642 at 60 fph avg. with 870 gpm and 450 diff. MW @ 9 ppg Begin Mud up (Increase reologies and Reducing water loss to >16)
06:00	07:30	(STOP) Unplanned - Restart bit with no success, Troubleshoot Bit and Motor, Pump sweeps restart bit with different peramiters multiple times to determin a possible mud motor failure or Worn Bit.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
07:30	09:00	Continue circulating, fill trip tank and Build slug, while circulating to condition Mud.
09:00	15:00	Pull out of hole to inspect / change Bit and Mud Motor Pull tight at 5570' (250K) Drain and Inspect Mud Motor then break-out and Inspect Bit (Mud Motor: OK / Bit: Ring out - Nose, DBR but IN GAUGE). While Pulling Pipe, Tear-down and Inspect Fluid end of #2 Mud Pump (No Repairs Needed)
15:00	15:30	Rig service - (JSA & Personnel lift permit) Lubricate draw works TDS and ST-80 Function test Blind rams.
15:30	16:30	Pick up New BIt (DP506FX) and Mud Motor (Weatherford Hyperline 7840, 7/8 lobe, 2.12 deg) Install New batteries in EM tool and Scribe Directional tools.
16:30	22:30	Trip in hole from 120' to 5510'. Bridged out at 1845' Pick up rotatre string to orient tool face and work down through tight spot. Fill pipe at 2000' and empty trip tank. Trip in hole to 3996 Fill pipe, break circulation and empty trip tank. Break Circulation @ 5510 then wash to bottom Reaming through the Trona at 5570 several times. TRIP GAS: 3950 u
22:30	00:00	(Start) Drilled 68' of 12 1/4" hole from 5642 to 5710' at 45 fph avg. with 870 gpm and 450 diff. MW @ 9.2 ppg Continuing Mud up

Report Start Date	Report End Date	24hr Activity Summary
5/27/2014	5/28/2014	Drilling 12 1/4" from 5710 to 6849.

Start Time	End Time	Comment
00:00	05:30	Drilled 273' of 12 1/4" hole from 5710' to 5983' at 49.6 fph avg. with 780 gpm and 400 diff. Slides: f/5892 - 5932 (40' in 1.5 Hr) @ 330 MTF MW @ 9.3 ppg.
05:30	06:00	Rig Service - (JSA & Personnel lift Permit) Lubricate and inspect Draw works, blocks, TDS, ST-80, Catwalk and Pumps
06:00	17:30	Drilled 567' of 12 1/4" hole from 5983' to 6550' at 49.3 fph avg. with 780 gpm and 400 diff. Slide F/6455 - 6490 (33' in 1.5) @ 50 R GTF Total rotate: 534' in 10 hr MW @ 9.3 ppg.
17:30	18:00	Rig Service - (JSA & Personnel lift Permit) Lubricate and inspect Draw works, blocks, TDS, ST-80, Catwalk and Pumps
18:00	00:00	Drilled 299' of 12 1/4" hole from 6550' to 6849' at 49.8 fph avg. with 780 gpm and 400 diff. Slides: f/6551 to 6581 (30' in 1 HR) @ 80 R GTF f/6840 to 6849 (9' in .5) @ 80 R GTF Total rotate: 260' in 4.5 hr MW @ 9.3 ppg.

Report Start Date	Report End Date	24hr Activity Summary
5/28/2014	5/29/2014	Drilling 12 1/4" from 6849 to 7700.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:00	03:30	Drilled 176' of 12 1/4" hole from 6849' to 7025' at 50.3 fph avg. with 780 gpm and 400 diff. Slides: f/6849 to 6873 (24' in 1 hr.) @ 85R GTF Total rotate: 152' in 2.5 hr MW @ 9.3 ppg.
03:30	04:00	Rig Service - (JSA & Personnel lift Permit) Lubricate and inspect Draw works, blocks, TDS, ST-80, Catwalk and Pumps
04:00	14:30	Drilled 357' of 12 1/4" hole from 7025' to 7382' at 50.3 fph avg. with 780 gpm and 400 diff. Slides: f/7027 to 7068 (41' in 2.5 hr.) @ 25R GTF 7309' to 7344' (35' in 1 hr) @ 310 M Total rotate: 281' in 7 hr MW @ 9.3 ppg Change Shaker screens on #3 Shaker to API 230 #2 200 api and 170 API on #1
14:30	15:00	Rig Service - (JSA & Personnel lift Permit) Lubricate and inspect Draw works, blocks, TDS, ST-80, Catwalk and Pumps Clean Radiators on all 3 Generators due to High temp.
15:00	00:00	Drilled 318' of 12 1/4" hole from 7382' to 7700 at 35.3 fph Avg. with 780 gpm and 400 diff. Slides: f/7404 to 7454 (50' in 2 hr.) @ 290 MTF 7598' to 7639' (41' in 2.5 hr) @ 40R GTF Total rotate: 227' in 4.5 hr MW @ 9.5 ppg

Report Start Date	Report End Date	24hr Activity Summary
5/29/2014	5/30/2014	Drilling 12 1/4" from 7700 to 8073.

Start Time	End Time	Comment
00:00	03:30	Drilled 84' of 12 1/4" hole from 7700 to 7784 at 24 fph Avg. with 780 gpm and 400 diff. Slides: f/7700 to 7740 (40' in 2.5 hr.) @ 25 R GTF Total rotate: 44' in 1hr MW @ 9.5 ppg
03:30	04:00	Rig Service - (JSA & Personnel lift Permit) Lubricate and inspect Draw works, blocks, TDS, ST-80, Catwalk and Pumps
04:00	17:00	Drilled 190' of 12 1/4" hole from 7784 to 7974at 14.3 fph Avg. with 780 gpm and 400 diff. 100% Slides MW @ 9.5 ppg
17:00	17:30	Rig Service - (JSA, LOTO, and Personnel lift permit) Lubricate and inspect draw works, blocks, ST-80, Catwark, crown, inner BOP. Shut down generators to clean out radiators.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
17:30	00:00	Drilled 99' of 12 1/4" hole from 7974' to 8073, at 15.2 fph Avg w/ 750 GPM at 250 Diff. Slides: 7984' to 8020' (36' in 2.5 hr) @ 45R Slides: 8038' to 8068' (30' in 2.5 hr) @ 45R Slides: 8068' to 8073' (5' in .5 hr) @ 60R GTF Rotate: 18' in .5 hrs MW @ 9.4 Vented to gas buster 1-3' flair w/ .1 gas cut w/ 4200 units of back ground gas

Report Start Date	Report End Date	24hr Activity Summary
5/30/2014	5/31/2014	Drilling 12 1/4" from 8073 to 8218. Tripped out for a new MM and bit.

Start Time	End Time	Comment
00:00	06:00	Drilled 91' of 12 1/4" hole from 8073, to 8164 at 15.1 fph Avg w/ 750 GPM at 250 Diff. Slides: 8073' to 8133' (60' in 4 hr) @ 60R GTF 8133' to 8164' (31' in 2 hr) @ 85R GTF MW @ 9.4 Vented to gas buster 1-3' flair w/ .1 gas cut w/ 4200 units of back ground gas
06:00	06:30	Rig Service - (JSA, LOTO, and Personnel lift permit) Lubricate and inspect draw works, blocks, ST-80, Catwalk, crown, inner BOP. Shut down generators to clean out radiators.
06:30	09:00	Drilling from 8164 to 8218' 54' Pressure spiked ROP slowed, Trouble shoot mud motor. continue drilling with reduced Flow rate to drill to survey point and Begin weighthing mud for trip. MW raised to 9.6 PPG.
09:00	14:00	(Start) Circulate and reciprocate pipe from 8214' to 8156', Pumping @ 628 GPM, Rotating at 40 RPM, Increased MW from 9.5 to 10.0 ppg
14:00	17:30	(Stop) Pull out of hole from 8512 to 3597'
17:30	18:30	Rig Service - (JSA, LOTO, and Personnel lift permit) Lubricate and inspect draw works, blocks, ST-80, Catwalk, crown, inner BOP. Trouble shoot and fix bad plug on drawworks
18:30	19:30	Pull out of the hole from 3597' to 1070, got to HWDP and pulled rotating head.
19:30	20:00	Remove Rotating Head rubber
20:00	20:30	Lay down BHA
20:30	23:00	Picked up new bit and MM. Went in hole w/ a Smith MDi 716 bit and 2.12 degree 7/8, 4stage 0.16rev/gal slick Mud Motor. The rest of the BHA is the same as before.
23:00	23:30	Trip in the hole to 1070', stop and insert rotation head rubber
23:30	00:00	Install rotating head rubber

Report Start Date	Report End Date	24hr Activity Summary
5/31/2014	6/1/2014	Trip in hole with new bit and motor, Wash to bottom and drill to td at 8420'. Trip out of the hole w/ DP and rig up Kimzey Casing Service.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:00	04:00	Trip in hole from 1070 to 8060' while monitoring well on trip tank, Fill Pipe every 2000' Work tight spots at 1830', 3850', ans 5570'
04:00	05:00	Wash and ream last 158' from 8060 to 8218' 4500U Trip gas
05:00	14:30	(START) Drill 202' from 8218' to 8420 at 21.2 ft/ hr with 753 gpm at 3950 PSI at 350 diff. Slides: 8218 - 8259 (41' in 2.5 hr) @ 45R GTF, 8259'-8353' (94' in 4 hr) @ 45R, 8353' - 8403' (50' in 2.5 hr) @ 45R GTF, (Total : 185' in 9 HR) Rotate 17' in .5 hr TD interval @ 8420' at 14:30 MW: 10.1 ppg
14:30	15:30	(START) Circulate at Casing Point- Mix pill and Fill trip tank Check well for flow (NO FLOW) and Pump Slug.
15:30	20:30	(START)Pull out of hole for Casing run. Pull out from 8420 to 1100' then pull rotating head and continue to pull out of the hole to 92'
20:30	22:00	Lay down directional tools and equipment - Pull out and lay down NMDC then lay down and inspect EM tool, Beak down Tool Carrier, Double pin sub and Pull Motor and inspect bit(0-0-NO-A-X-I-NO-TD). Drain Motor, Break bit nd lay down Mud motor. Function test Blind Rams, clean floor and pick up single joint for Wear bushing removal.
22:00	22:30	Pull Wear Bushing
22:30	23:00	(START) Casing Operations- Pre Job safety Meeting & JSA w/ Kimzey Casing Service, rig crew, and drilling foreman. Discussed the rigging up and running process.
23:00	00:00	Begin rigging up Kimzey Casing Service

Report Start Date	Report End Date	24hr Activity Summary
6/1/2014	6/2/2014	Rig up casing crew and run casing

Start Time	End Time	Comment
00:00	01:30	Continue rigging up Kimzey casing - Picked up first Joint and Tried to use Rotary slips without success so rig up continued with installing Air slips.
01:30	05:30	Run 3 joints 9 5/8" N-80 BTC casing with Float shoe and float collar Pre Bucked and thread locked then rig up SRT tool and pump through float equipment from surface. Continue running casing from 135' to 2100' filling as needed for weight.
05:30	06:00	Fill casing and Service rig - Lubricate DW, St-80 and top drive, Service catwalk.
06:00	20:30	Run 9 5/8" N-80 BTC casing from 2100' to 8400' filling every 20 joints. Wash casing down from 8400' to 8420' with 10 BPM at 350 PSI Clean premix tank and fill with OBM from Storage and roll with aggitators and gun line Displacement OBM: 14.1 ppg, 118 sec/qt @ 78 deg. HES arrived at 12:00 begin to spot in and rig up

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
20:30	21:30	Circulate Casing while rigging down KImzey casers and rig up Halliburton. Rig up cement head
21:30	22:00	(START) Cementing Operations - PJSM with Halliburton and rig crew
22:00	00:00	Cement Casing with HES - 22:00 Rig up cement head and load plug (witnessed by Drilling foreman) Job details: Tuned spacer: 40 bbl at11 ppg First lead :35 bbl at 12.5 ppg Second lead: 382 bbl at 12.5 with bwoc Tail: 134 bbls at 14 ppg Disp: 635 bbls of 14.1 ppg Oil mud 22:28 Pump-in 3 bbls to prime pump and lines, close valve then pressure test to 3000 psi and hold 5 minutes then bleed off pressure Begin batch up tuned spacer and scale at 10.9 ppg 22:36 Start down hole with Tuned Spacer at 2 Bpm with 53 psi 22:38 Stage up to 4 Bpm 156 psi 22:47 Spacer gone 38.8 bbls 22:48 Batch up and scale first lead Cement to12.3 ppg. 22:52 Start down hole with Cement at 4.1 Bpm with 185 psi. 22:54 Sample and scale cement at 12.35 23:01 38 bbls first lead away at 12.5 ppg 23:02 Start second lead at 12.5 ppg with 240 psi at 6 Bpm 23:23 Sample and scale with 132 bbls away (12.4 ppg) 23:59 350 bbls second lead away with 230 psi at 6 Bpm

Report Start Date	Report End Date	24hr Activity Summary
6/2/2014	6/2/2014	Finish up cementing with Halliburton, displacing hole w/ OBM. Clean pits w/ super sucker, cold cut 9 5/8" and set them in the slips. Skid rig over to the UT 14-9-4-3-2WH and begin intermediate hole section.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:00	04:00	Continue Pumping Cement with Halliburton 00:21 start lead with 382 bbls away 00:22 start tail scale sample at 147.5 ppg 00:32 scale lead at 14.1 ppg with 90 bbls away with 395 psi at 5 Bpm 00:38 109 bbls of lead gone Wash up pump and prep for Disp Start sending mud to cement truck with premix pumps 00:54 drop plug verified by Zack Baldwin pumping displacement with 14.1 ppg Obm at 4 Bpm with 160 psi 10 bbls away at 4 Bpm with 160 psi Increase rate to 6 Bpm with 330 psi 20 bbls away at 6 Bpm with 330 psi Increase rate to 7 Bpm with 390 psi 30 bbls away at 7 Bpm with 390 psi 50 bbls away at 7 Bpm with 450 psi 110 bbls away at 7 Bpm with 460 psi 140 bbls away at 7 Bpm with 475 psi 160 bbls away at 7 Bpm with 480 psi 200 bbls away at 7 Bpm with 450 psi 220 bbls away at 7 Bpm with 440 psi Good returns 320 bbls away at 7 Bpm with 340 psi Good returns 370 bbls away at 7 Bpm with 390 psi 420 bbls away at 7 Bpm with 450 psi Good returns 470 bbls away at 7 Bpm with 405 psi Good returns 550 bbls away at 7 Bpm with 405 psi Started getting spacer back / good returns 580 away at 5 Bpm with 271 psi 590 bbls away at 5 Bpm with 270 psi Clean cement back 600 bbls away at 5 Bpm with 230 psi 610 bbls away at 5 Bpm with 195 psi 02:40 615 bbls away bumped plug, pressured up to 750 psi and held for 25 bbls of clean cement back Floats held Wash up and rig down cement crew *** Transfer Mud and Clean settleing tanks while Cementing
04:00	14:30	(Start) Nipple up Well head equipment - Hold Pre job safety meeting with B&C and Cameron. Nipple down Chole and kill lines break well head connection at base of "B" section, Set slips with 80K overpull and Cut-off 9 5/8" casing with Safecut tool. Set BOP back down and install Pack off assembly (Run on Drill pipe) Break well heas at top of "B" section and instal night cap. ***Transfered WMB back intoActive pits from storage and configure Peak solids control for strip mode. Strip mud weight back for drilling the UT14-9-4-9-2WH.

Report Start Date	Report End Date	24hr Activity Summary
7/6/2014	7/7/2014	Skid/Walk 15' back & Center Stack over hole, NU BOP's & Test BOP, Test Casing. Pick up Curve RSS BHA and trip in hole. Brought MW down from 15.5 to 15.2 ppg.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
06:00	07:00	(Start) Skid - Walk 15' back & Center Stack over hole to Ute Tribal 13-9-4-3-2WH
07:00	10:00	(Start) Rig Up - Set stack on wellhead and niple up BOP and choke lines with B&C quick test. RIgged up flow line to shaker skid, moved catwalk forward and pinned beaver slide, hooked up mud line, and stabbed mouse hole sock.
10:00	10:30	Safety Mtg. W/ Pioneer, B&C Testers & NFX, Testing BOP's
10:30	16:00	(Start)... PresureTesting BOP's All tests - 250 psi low f/ 5 min, & 5000 psi high for 10 minutes. Tested Upper Pipe Rams, TIW Valve, Inside Manual Valve an inside Kill Line valve, upper pipes, manual BOP, and outside kill line, lower pipes, check valve, choke line, upright gauge valve, and inside manifold valves, tested Blind Rams and outside manifold valves and super choke tested Dart valve. Tested Annular to 3500 psi for 10 min. Test casing 1855 psi for 30 min. Test kelly hose & lines back to pumps.
16:00	16:30	(Start) Handle Curve Assembly - Install wear bushing
16:30	20:00	Pick up and begin to make up RSS curve assembly. Perform BHA checklist while making up BHA in mouse hole. Programmed directional tools and rigged up Downlink Commander
20:00	20:30	Rig Service - Perform Rig service and inspect top drive, blocks, ST-80, draw works. Performed thorough rig service prior to tripping in the hole.
20:30	21:30	(Start) Trip - Make up float sub and trip in the hole from 93' to 1,230'. Strapped pipe in the hole.
21:30	22:00	Install rotating head rubber
22:00	22:30	Shallow hole MWD test, tool tested good
22:30	00:00	Trip in the hole from 1,230' to 4,180', strapping pipe in the hole. MW reduced from 15.4 to 15.1 ppg. Mud is back on barite recovery after reduction in weight.

Report Start Date	Report End Date	24hr Activity Summary
7/7/2014	7/8/2014	Trip in the hole with DP to Intermediate casing float collar. Tag cement and drill out of casing shoe, perform FIT test. Drill 8 3/4" RSS curve. from 8430' to 8,748' 224' @ 22.4 fph

Start Time	End Time	Comment
00:00	01:00	Trip in the hole from 4,180' to 5,504', strapping each stand.
01:00	02:30	Cut and slip 25 wraps of drill line MW 13.7, light mud from intermediate starting to mix with active system
02:30	03:00	Replace leaking rotating rubber
03:00	06:00	Trip in the hole from 5,504' to 8148' Wash from 8148' to 8377'
06:00	07:00	(Start)... Drill Cement Float collar @ 8375' & Float shoe @ 8420' @ 450 gpm 100 rpm pp 2485 psi, wob 3-5 K
07:00	07:30	(Start)... Drill Curve 10 ft New hole to 8430' @ 450 gpm 100 rpm pp 3100 psi wob 10-15 K

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
07:30	09:00	Circulate bottoms up 1 1/2 times 7500 stks. @ 450 gpm 20 rpm
09:00	10:00	(Start) FIT Test: Perform FIT to 1,140 psi with 13.4 ppg MW at 8,430' (16.0 ppg equivalent)
10:00	13:30	(STart)... Drill 8 3/4" Curve with Weatherford RSS assembly From 8430' to 8524' 95' w/ 450 GPM, 125 RPM, PP 3450 psi, WOB 3-5 K
13:30	14:00	Rig Service
14:00	00:00	Drill 8 3/4" Curve with Weatherford RSS assembly from 8524' to 8,748' Drill 224' @ 22.4 fph Parameters: 20-25k WOB, 115-125 rpm, Variable TQ 4000-13000, 120-143 spm (420-500 gpm) Start - MW 15.3, Vis 55 End - MW 15.5, VIs 56

Report Start Date	Report End Date	24hr Activity Summary
7/8/2014	7/9/2014	Drill 8 3/4" curve from 8,784' to 9,209', Drill 8 3/4" lateral from 9,209' to 9,391' Drill 643' @ 28 fph

Start Time	End Time	Comment
00:00	03:00	Drill 8 3/4" Curve with Weatherford RSS assembly from 8,748' to 8,809' Drill 61' @ 20.33 fph Parameters: 20-25k WOB, 115-125 rpm, Variable TQ 4000-13000, 120-143 spm (420-500 gpm) MW 14.5 Vis 55
03:00	03:30	Rig Service - Service and check fluids in top drive, draw works, ST-80, catwalk, and rotating head oiler.
03:30	17:00	Drill 8 3/4" Curve with Weatherford RSS assembly from 8,809' to 9,189' Drill 385' @ 28.1 fph Parameters: 20-25k WOB, 125-130 rpm, Variable TQ 4000-13000, 120-143 spm (420-500 gpm) MW 14.5 Vis 55
17:00	17:30	Rig Service - Lubricate Topdrive, draw works, ST-80
17:30	00:00	(Start) Drill 8 3/4" Lateral with Weatherford RSS assembly from 9,189' to 9,391' (Land curve at 9,209') Drill 202' @ 31.1 fph Parameters: 20-25k WOB, 130-150 rpm, Variable TQ 4000-13000, 120-143 spm (420-500 gpm) MW 14.6 Vis 55

Report Start Date	Report End Date	24hr Activity Summary
7/9/2014	7/10/2014	Drill 8 3/4" lateral from 9,391' to 10,119' Drill 728' @ 31.7 fph

Start Time	End Time	Comment
00:00	03:30	Drill 8 3/4" Lateral with Weatherford RSS assembly from 9,391' to 9,473' Drill 82' @ 23.4 fph Parameters: 20-25k WOB, 135-145 rpm, 13,500 torque, 120-143 spm (420-498 gpm), 3,250 psi MW 14.6 Vis 55
03:30	04:00	Service rig, Check oils in top drive, drawworks, Grease crown, Clean radiators on light plants

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
04:00	17:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 9,473' to 9,853' Drill 380' @ 29.2 fph Parameters: 24-29k WOB, 150-180 rpm, 11,500 torque, 143 spm (498 gpm), 3,440 psi Increased MW to 14.8 Vis 55
17:00	17:30	Service rig, Check oils in top drive, drawworks, ST-80, Clean radiators on light plants
17:30	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 9,853' to 10,119' Drill 266' @ 40.9 fph Parameters: 23-28k WOB, 160 rpm, 10,800 torque, 143 spm (498 gpm), 3,460 psi Maintain 14.8 MW, 55 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/10/2014	7/11/2014	Drill 8 3/4" lateral from 10,119' to 11,146' Drill 1,027' @ 48.9 fph, 2 hrs rig repair

Start Time	End Time	Comment
00:00	04:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 10,119' to 10,327' Drill 208' @ 46.2 fph Parameters: 23-28k WOB, 180 rpm, 13,200 torque, 143 spm (498 gpm), 3,630 psi Maintain 14.8 MW, 55 Vis
04:30	05:00	Service rig, Check oils in top drives, Clean radiators on both light plants, Go through #2 mud pump, Grease swivel packing
05:00	07:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 10,327' to 10,422' Drill 95' @ 47.5 fph Parameters: 23-28k WOB, 180 rpm, 13,200 torque, 143 spm (498 gpm), 3,630 psi Maintain 14.8 MW, 55 Vis
07:00	07:30	Rig Service
07:30	09:30	IBOP broke out from Quill, remove Torque Ring, Re Torque IBOP, Reinstall Torque Ring.
09:30	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 10,422' to 11,146' Drill 724' @ 49.9 fph Parameters: 25-35k WOB, 180 rpm, 15,000 torque, 143 spm (498 gpm), 3,620 psi Increase MW to 14.9, 55 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/11/2014	7/12/2014	Drill 8 3/4" lateral from 11,146' to 12,370' Drill 1,224' @ 55.6 fph

Start Time	End Time	Comment
00:00	04:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 11,146' to 11,370' Drill 224' @ 56 fph Parameters: 30-35k WOB, 180 rpm, 15,500 torque, 137 spm (478 gpm), 3,430 psi Maintain 14.9 MW, 55 Vis

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
04:00	04:30	Service rig, Check oils in top drive, drawworks, Grease swivel packing
04:30	13:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 11,370' to 11,939' Drill 569' @ 63.2 fph Parameters: 30-35k WOB, 180 rpm, 16,000 torque, 134 spm (467 gpm), 3430 psi Increase MW to 15.1, 55 Vis
13:30	14:30	Change out rotating head rubber
14:30	17:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 11,939' to 12,113' Drill 174' @ 58 fph Parameters: 30-35k WOB, 180 rpm, 16,000 torque, 134 spm (467 gpm), 3,560 psi Maintain 15.1 MW, 55 Vis
17:30	18:00	Service rig, Check oils in drawworks, top drive
18:00	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,113' to 12,370' Drill 257' @ 42.8 fph Parameters: 30-35k WOB, 180 rpm, 16,000 torque, 134 spm (467 gpm), 3,640 psi Increase MW to 15.2, 55 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/12/2014	7/13/2014	Drill 8 3/4" lateral from 12,370' to 13,268', Drill 898' @ 40.8 fph

Start Time	End Time	Comment
00:00	03:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,370' to 12,509' Drill 139' @ 39.7 fph Parameters: 31-36k WOB, 180 rpm, 16,620 torque, 134 spm (467 gpm), 3,590 psi Maintain 15.1 MW, 55 Vis
03:30	04:00	Service rig, Check oils in top drive, drawworks, Clean radiators on light plants, Service #2 mud pump
04:00	11:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,509' to 12,838' Drill 329' @ 47 fph Parameters: 31-36k WOB, 180 rpm, 16,900 torque, 134 spm (467 gpm), 3,640 psi Increase MW to 15.2, 55 Vis
11:00	11:30	Troubleshoot Mud Pumps
11:30	12:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,838' to 12,850' Drill 12' @ 24 fph Parameters: 20-25k WOB, 160 rpm, 16,000 torque, 120 spm (418 gpm), 3,180 psi Maintain 15.1 MW, 55 Vis
12:00	12:30	Troubleshoot RSS Tool

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
12:30	13:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,850' to 12,886' Drill 36' @ 36 fph Parameters: 31-36k WOB, 180 rpm, 16,900 torque, 134 spm (467 gpm), 3,640 psi Maintain 15.2 MW, 55 Vis
13:30	14:00	Service rig
14:00	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 12,886' to 13,268' Drill 382' @ 38.2 fph Parameters: 31-36k WOB, 180 rpm, 15,800 torque, 134 spm (467 gpm), 3,790 psi Maintain 15.2 MW, 55 Vis Clean Harbor's barite recovery centrifuge broke down at 19:30, rigged up remaining shaker for stripping operations as needed till new shaker arrives 7/13 AM

Report Start Date	Report End Date	24hr Activity Summary
7/13/2014	7/14/2014	Drill 8 3/4" lateral from 13,268' to 14,405', Drill 1,137' @ 50.5 fph

Start Time	End Time	Comment
00:00	04:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 13,268' to 13,457' Drill 189' @ 47.3 fph Parameters: 31-36k WOB, 180 rpm, 16,100 torque, 134 spm (467 gpm), 3,870 psi Maintain 15.2 MW, 55 Vis
04:00	04:30	Service rig, Check oils in top drive, drawworks, Grease swivel packing, Clean light plant radiators
04:30	12:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 13,457' to 13,836' Drill 379' @ 47.4 fph Parameters: 34-39k WOB, 180 rpm, 20,200 torque, 134 spm (467 gpm), 3,920 psi Maintain 15.1 MW, 55 Vis
12:30	13:00	Service Top Drive (Tighten wash pipe & Greese)
13:00	16:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 13,836' to 14,025' Drill 189' @ 63 fph Parameters: 35-40k WOB, 180 rpm, 19,200 torque, 134 spm (467 gpm), 40,600 psi Maintain 15.1 MW, 55 Vis
16:00	16:30	Service rig, Inspect drawworks, top drive, blocks, crown, catwalk, IBOP
16:30	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,025' to 14,405', Drill 380' @ 50.7 fph Parameters: 34-39k WOB, 180 rpm, 20,300 torque, 134 spm (467 gpm), 4,140 psi Maintain 15.1 MW, 55 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/14/2014	7/15/2014	Drill 8 3/4" lateral from 14,405' to 15,141', Drill 736' @ 42.1 fph, 2 hrs rig repairs - swivel packing, 3 hrs circulating due to excessive pump pressure

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:00	00:30	Service rig, Check oils in top drive, drawworks, Clean radiators on light plants, filters on top driver blower motors
00:30	05:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,405' to 14,645', Drill 240' @ 48 fph Parameters: 31-36k WOB, 180 rpm, 19,000 torque, 134 spm (467 gpm), 4,310 psi Maintain 15.1 MW, 55 Vis
05:30	07:30	Change out swivel packing in top drive
07:30	08:00	Lay Down Bent Joint
08:00	11:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,645' to 14,743', Drill 98' @ 28 fph Parameters: 30-35 k WOB, 180 rpm, 22,700 torque, 134 spm (467 gpm), 4,760 psi Maintain 15.1 MW, 80 Vis Pressure increased by 500 psi (4250 psi)
11:30	12:00	Circulate cleanup Cycle & Work pipe, 180 RPM, 467 GPM
12:00	13:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,743' to 14,782', Drill 39' @ 39 fph Parameters: 31-36 k WOB, 180 rpm, 19,100 torque, 134 spm (467 gpm), 4,700 psi Maintain 15.1 MW, 80 Vis Pressure increased by 700 psi (4840 psi)
13:00	13:30	Circulate cleanup Cycle & Work pipe, 180 RPM, 467 GPM
13:30	14:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,782' to 14,794', Drill 12' @ 24 fph Parameters: 33-38 k WOB, 180 rpm, 20,300 torque, 120 spm (418 gpm), 4,130 psi Maintain 15.1 MW, 80 Vis
14:00	16:00	Circulate cleanup Cycle & Work pipe, 180 RPM, 467 GPM
16:00	17:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,794' to 14,847', Drill 53' @ 35.3 fph Parameters: 32-37 k WOB, 150 rpm, 22,800 torque, 134 spm (467 gpm), 4,560 psi Maintain 15.1 MW, 80 Vis
17:30	18:00	Service rig, Check oils in top drive, drawworks, light plants

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
18:00	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 14,847' to 15,141', Drill 294' @ 49 fph Parameters: 35-40 k WOB, 180 rpm, 23,500 torque, 134 spm (467 gpm), 4,120 psi Maintain 15.1 MW, 80 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/15/2014	7/16/2014	Drill 8 3/4" lateral from 15,141' to 16,205', Drill 1,064' @ 48.4 fph

Start Time	End Time	Comment
00:00	03:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 15,141' to 15,353', Drill 212' @ 60.6 fph Parameters: 35-40 k WOB, 180 rpm, 20,300 torque, 134 spm (471 gpm), 4,240 psi Maintain 15.1 MW, 80 Vis
03:30	04:00	Service rig, Check oils in top drive, drawworks, light plants, and ST-80
04:00	13:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 15,353' to 15,825', Drill 472' @ 52.4 fph Parameters: 25-30 k WOB, 180 rpm, 21,200 torque, 134 spm (471 gpm), 4,330 psi Maintain 15.1 MW, 70 Vis
13:00	13:30	Service rig, Check oils in top drive, drawworks, ST-80, catwalk, Inspect blocks and crown
13:30	19:30	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 15,825' to 16,060', Drill 235' @ 39.2 fph Parameters: 30-35 k WOB, 180 rpm, 20,400 torque, 133 spm (468 gpm), 4,400 psi Maintain 15.1 MW, 70 Vis
19:30	20:30	Change out wash pipe assembly
20:30	00:00	Drill 8 3/4" Lateral with Weatherford RSS assembly Drill from 16,060' to 16,205', Drill 145' @ 41.4 fph Parameters: 25-30 k WOB, 160 rpm, 20,200 torque, 133 spm (468 gpm), 4,490 psi Maintain 15.1 MW, 70 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/16/2014	7/17/2014	Drill 8 3/4" lateral from 16,205' to 17,235', Drill 1,030' @ 46.8 fph, 1 hr rig repairs - mud line leak

Start Time	End Time	Comment
00:00	00:30	Service rig, Check oils on top drive, drawworks, Inspect crown, blocks, and track guides
00:30	16:00	Drilled 759' of 8 3/4" Lateral with Weatherford RSS assembly from 16,205' to 16,964' with an average ROP of 48.97 fph Parameters: 25-30 k WOB, 160 rpm, 22,500 torque, 134 spm (471 gpm), 4,440 psi Maintain 15.1 MW, 70 Vis
16:00	16:30	Service rig, Check oils on top drive, drawworks, ST-80, catwalk, Inspect blocks

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
16:30	23:00	Drilled 271' of 8 3/4" Lateral with Weatherford RSS assembly from 16,964' to 17,235' with an average ROP of 41.7 fph Parameters: 20-25 k WOB, 180 rpm, 22,500 torque, 134 spm (471 gpm), 4,510 psi Maintain 15.1 MW, 70 Vis
23:00	00:00	Observed 800 psi pressure loss, Picked up off bottom and found leak on mud line between mud pumps, Lock out both pumps, Isolate #2 mud pump from mud line in order to make repairs to mud line

Report Start Date	Report End Date	24hr Activity Summary
7/17/2014	7/18/2014	Drill 8 3/4" lateral from 17,235' to 17,772', Drill 537' @ 25 fph, 1.5 hr rig repairs - mud line leak

Start Time	End Time	Comment
00:00	00:30	Cont. repairs to mud line
00:30	04:30	Drilled 123' of 8 3/4" Lateral with Weatherford RSS assembly from 17,235' to 17,358' with an average ROP of 30.8 fph Parameters: 20-25 k WOB, 180 rpm, 20,300 torque, 119 spm (418 gpm), 3,880 psi Maintain 15.1 MW, 70 Vis
04:30	05:00	Service rig, Change out swab on #1 mud pump
05:00	06:30	Drilled 50' of 8 3/4" Lateral with Weatherford RSS assembly from 17,358' to 17,408' with an average ROP of 33.3 fph Parameters: 20-25 k WOB, 180 rpm, 20,300 torque, 119 spm (418 gpm), 3,940 psi Maintain 15.1 MW, 70 Vis
06:30	07:30	Finish repairs to mud line, Lock out both mud pumps and plumb #2 back into mud line
07:30	17:00	Drilled 219' of 8 3/4" Lateral with Weatherford RSS assembly from17,408' to 17,627' with an average ROP of 23.1 fph Parameters: 20-25 k WOB, 165 rpm, 20,200 torque, 130 spm (457 gpm), 4,570 psi Maintain 15.1 MW, 70 Vis
17:00	17:30	Service rig
17:30	00:00	Drilled 145' of 8 3/4" Lateral with Weatherford RSS assembly from17,627' to 17,772' with an average ROP of 22.3 fph Parameters: 20-25 k WOB, 160 rpm, 18,500 torque, 130 spm (457 gpm), 4,650 psi Maintain 15.1 MW, 70 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/18/2014	7/19/2014	Drill 8 3/4" lateral from 17,772' to 18,295', Drill 523' @ 22.7 fph

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
00:00	05:30	Drilled 138' of 8 3/4" Lateral with Weatherford RSS assembly from17,722' to 17,910' with an average ROP of 25.1 fph Parameters: 25-30 k WOB, 160 rpm, 21,600 torque, 129 spm (453 gpm), 4,700 psi Maintain 15.1 MW, 70 Vis
05:30	06:00	Service rig, Check oils on top drive, catwalk, drawworks, ST-80, Inspect blocks and crown
06:00	14:30	Drilled 190' of 8 3/4" Lateral with Weatherford RSS assembly from 17,910' to 18,100' with an average ROP 22.4 fph Parameters: 31-36 k WOB, 170 rpm, 20,400 torque, 130 spm (457 gpm), 4,620 psi Maintain 15.1 MW, 70 Vis
14:30	15:00	Lubricate rig and Top drive system, Perform JSA and personel lift worksheet then Lock out and tag out procedure then service all moving parts on TDS-10 and ST-80 as well as catwalk and draw works. Lubricate blocks and crown.
15:00	00:00	Drilled 195' of 8 3/4" Lateral with Weatherford RSS assembly from 18,100' to 18,295' with an average ROP 21.7 fph Parameters: 25-30 k WOB, 160 rpm, 19,000 torque, 130 spm (457 gpm), 4,550 psi Maintain 15.1 MW, 70 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/19/2014	7/20/2014	Drill 8 3/4" lateral from 18,295' to 18,657' Drill 362' @ 17.7 fph

Start Time	End Time	Comment
00:00	05:30	Drilled 160' of 8 3/4" Lateral with Weatherford RSS assembly from 18,295' to 18,455' with an average ROP of 29.1 fph Parameters: 22-27 k WOB, 160 rpm, 20,500 torque, 130 spm (457 gpm), 4,440 psi Maintain 15.1 MW, 70 Vis
05:30	06:00	Lubricate rig and Top drive system, Perform JSA and personel lift worksheet then Lock out and tag out procedure then service all moving parts on TDS-10 and ST-80 as well as catwalk and draw works. Lubricate blocks and crown.
06:00	08:30	Drilled 31' of 8 3/4" Lateral with Weatherford RSS assembly from 18,455' to 18,486' with an average ROP of 12.4 fph Parameters: 25-30 k WOB, 170 rpm, 24,700 torque, 119 spm (418 gpm), 3,870 psi Troubleshoot mud pumps and drill with only #2 pump at 120 Stk (Lock out, tag out #1 mud pump) Perform JSA Maintain 15.1 MW, 70 Vis
08:30	11:00	Replace Swab in #1 Mud pump and function test, Then replaced Swab and liner and function test,(Leaking around liner) Replace liner gasket and discover a washed out wear plate.
11:00	11:30	Service rig, continue repairs on #1 mud pump

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
11:30	00:00	Drilled 171' of 8 3/4" Lateral with Weatherford RSS assembly from 18,486' to 18,657' with an average ROP of 13.7 fph Parameters: 20-25 k WOB, 175 rpm, 18,700 torque, 120 spm (422 gpm), 3,630 psi Continue to work on #1 mud pump, Perform JSA with Central Utah Welding and Fabrication, Took approx. 5 hrs to remove washed wear plate Maintain 15.1 MW, 80 Vis

Report Start Date	Report End Date	24hr Activity Summary
7/20/2014	7/21/2014	Drill 8 3/4" lateral from 18,657' to 18,713', Drill 56' @ 10.2 fph

Start Time	End Time	Comment
00:00	01:00	Drilled 14' of 8 3/4" Lateral with Weatherford RSS assembly from 18,657' to 18,671' with an average ROP of 14 fph Parameters: 20-25 k WOB, 175 rpm, 18,700 torque, 120 spm (422 gpm), 3,630 psi Continue to work on #1 mud pump, Perform JSA with Central Utah Welding and Fabrication, Took approx. 5 hrs to remove washed wear plate Maintain 15.1 MW, 80 Vis
01:00	01:30	Service rig
01:30	06:00	Drilled 42' of 8 3/4" Lateral with Weatherford RSS assembly from 18,671' to 18,713' with an average ROP of 9.3 fph Parameters: 20-25 k WOB, 175 rpm, 18,700 torque, 120 spm (422 gpm), 3,630 psi Continue to work on #1 mud pump until 03:00 then flow rate was increased to 490 GPM with 4600 psi but P-rate did not improve and RSS Not responding to commands Properly At 05:15 We lost #1 Swab on #1 Mud pump again. and Trouble shoot of RSS determined that the hydraulics have failed in RSS. Maintain 15.1 MW, 80 Vis
06:00	07:30	(Stop) Unplanned Troubleshoot Directional - Circulate at 422 GPM with 3580 PSI and Trouble shoot RSS Tool while continuing to repair mud pump. Reciprocating pipe from 18713 to 18670 while rotating at 160 RPM Communicate with Engineer Continue to Troubleshoot and down link with tool but RSS will not hold tool face except for in the direction of drift.Took Survey at 18690' and Stood back one stand to reciprocate pipe from 18670 to 18575 Complete repairs on #1 Mud pump and increase flow rate to 490 GPM with 4730 PSI

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
07:30	20:30	Circulate clean up cycle for trip. Circulate with 2 Pumps at 490 GPM with 4740 PSI and Rotate at 160 RPM and reciprocate pipe from 18670 to 18575 for first bottoms up pressure dropped to 4605 PSI and torque dropped from 13600 to 12400 Ft/lbs Pull stand and rotate and reciprocate from18575 to 18485, second bottoms up at 09:55 with Pressure dropped to 4500 Psi and torque at 11900 Ft/lbs Pulled second stand and reciprocate and rotate at 125 RPM from 18485 to 18390 while circulating at 490 GPM Pressure stayed at 4500 PSI with torque at 11500 ft/lbs. Pulled Third stand and Attempted to Pull on elevators with Max pull of 400K a 94' stand was successfully pulled on elevators with average pick up weight of 360K Continued circulating at 490 GPM while rotating at 125 Rpm and reciprocating from 18390 to 18395 torque at 11000 ft/lbs and pressure at 4450 PSI Pumped a 100 BBl wall-Nut sweep and spotted mid lateral then Stood back a stand at 18,288 then attempted a pull test with 2 Stands from 18,288 up to 18,100' with Max pull of 370K and Average pull of 325K Continue circulating at 490 GPM and rotating at 125 RPM and reciprocating from 18,100' to 18007' and prepare 200 BBL wall-nut sweep Pump Sweep and chase with 377 bbls to spot sweep in lateral annulas 1000' above the bit.
20:30	00:00	Trip - Pull out of hole with RSS assembly on elevators from 18,100' to 14,400', average pick up weight of 280 klbs, pulled 425 klbs on three stands at 17,780', 16,690', and 16440', Monitor well on trip tank

Report Start Date	Report End Date	24hr Activity Summary
7/21/2014	7/22/2014	Trip out of hole with 8 3/4" RSS assembly, Handle BHA, Trip in hole with 8 1/2" bent motor assembly to 8,736'

Start Time	End Time	Comment
00:00	00:30	Flow Check and Pump pill at 14,000
00:30	04:00	Trip out of hole from 14,000' to 8,500' Monitoring well on trip tank, Well took proper fill
04:00	04:30	Service Rig and top drive
04:30	08:00	Trip out of hole from 8500' to the BHA at 105' Monitoring well on trip tank, Well took proper fill Pull rotating head rubber
08:00	13:00	Hold safety meeting with Weatherford, Break bit, lay down RSS, Lay down HEL Tool, reamer,Float sub and NMDC. Clean rig floor and grade bit 2-2 with 3 plugged nozzles and it was in gauge. *Found a 1 1/2" hole washed in HEL/IDS tool at 4 1/2" IF connection between Pulsar collar and IDS collar Pick up and set adjustable mud motor at 1.5 deg, lay down Mud motor and pick up BHA from top to bottom then change out reamer sleeve for Slick sleeve on HEL tool. Pick up mud motor (7/8, 3.5 Stage .26 rev/gal) and make up 8 1/2" PDC drill bit (Smith MDI611 jetted with 6X16's) Trip in to 1037' and Install Rotating head rubber and perform Shallow hole test on tool (tested OK)
13:00	15:00	Trip in hole from 1037' to 2462 Trouble shoot ST-80

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
15:00	17:00	Cut and Slip 150' of Drilling line Perform JSA, LOTO and Personel lift permit.
17:00	17:30	Service rig
17:30	21:30	Trip in hole from 1,037' to 5,112', Pick up agitator on top of Stand #53, Trip in hole from 5,112' to 5,611', Test MWD tool at 5,611', Trip in hole from 5,611' to 8,328'
21:30	22:30	Change out - Install new rotating head element
22:30	23:00	Trip in hole from 8,328' to 8,736'
23:00	00:00	Circulate bottoms up, Pump at 120 spm (422 gpm), 3,100 psi, Rotate at 40 rpm, 4,400 ft lbs torque, 615 units max trip gas with 15.1 MW

Report Start Date	Report End Date	24hr Activity Summary
7/22/2014	7/23/2014	Trip in hole on elevators with 8 1/2" bent motor assembly from 8,736' to 17,522', 17,550 to 18,110', 18,125' to 18,691', Wash/ream from 17,522' to 17,550', 18,110' to 18,125', 18,691' to 18,715', Drill 8 1/2" later from 18,713' to 18,976, Drill 263' @ 19.5 fph, 1 hr repairs - wash pipe/swivel packing

Start Time	End Time	Comment
00:00	05:30	Trip in hole from 8,736' to 17,522', Monitor well on trip tank, Fill pipe every 30 stands, Wash/ream bottom of one stand from 17,522' to 17,552', High side bent motor Pick up at 17,522' = 280 klbs, Slack off = 95 klbs, SPP at 120 spm (422 gpm) = 4470 psi, Torque at 40 rpm = 15,000 ft lbs
05:30	06:00	Service rig
06:00	09:00	Trip - High side Mud motor and trip in hole from 17,522 to 18,691, (Install drill pipe screen and screw into each stand incase wash and ream is needed) Wash through tight spot from 18,105 to 18,123' Break circulation at 18,690' then wash and ream from 18,691 to bottom at 18,713'
09:00	16:00	(START) Drilling Lateral with Directional assembly - Drill 102' of 8 1/2" hole in lateral from 18,713' to 18815' at an average ROP of 20.4 FPH
16:00	17:00	Repairs to wash pipe, Replace swivel packing
17:00	17:30	Service rig, Check oils in top drive, drawworks, Grease crown
17:30	00:00	(START) Drilling Lateral with Directional assembly - Drill 142' of 8 1/2" hole in lateral from 18,834' to 18,976' at an average ROP of 21.8 FPH

Report Start Date	Report End Date	24hr Activity Summary
7/23/2014	7/24/2014	Drill 8 1/2" lateral from 18,976' to 19,310' (td), Begin clean up circulation cycles, pump clean up cycles 1-5, tripped 1 stand after each cycle. Pull tested string after clean up cycle #5, broke over at 322K lbs, avg 328K lbs.

Start Time	End Time	Comment
00:00	01:00	Circulate and reciprocate drill pipe to attempt to clean up hole. Pumped enough volume to clear the lateral while pipe was being worked up and down. Started trickeling in walnut hull at a bag every 1/2 hour. Torque came down during the circulation from 20K ft/lb to 15K ft/lb.
01:00	05:00	Drilling Lateral with Directional assembly - Drill 95 of 8 1/2" hole in lateral from 18,976' to 19,071' at an average ROP of 23.8 FPH

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
05:00	05:30	Rig Service. Inspect topdrive, drawworks, ST-80, and swivel packing.
05:30	13:00	Drilling Lateral with Directional assembly - Drill 189 of 8 1/2" hole in lateral from 19,071' to 19,260' at an average ROP of 25.2 FPH
13:00	13:30	Rig Service. Inspect topdrive, drawworks, ST-80, and swivel packing.
13:30	15:00	Drilling Lateral with Directional assembly - Drill 50 of 8 1/2" hole in lateral from 19,260' to 19,310' at an average ROP of 33.3 FPH
15:00	00:00	(Start) Final Clean Up Cycle - Clean Up Cycles - Reciprocating pipe 54', 70 RPM, and 120 SPM. Pumped clean up cycles 1 - 5, after clean up cycle #5 we pull tested string with no rotation or pump rate. Pull Weight broke over at 322 K lbs, max pull 337 K lbs, and we avg around 328 K lbs while pulling stand.

Report Start Date	Report End Date	24hr Activity Summary
7/24/2014	7/25/2014	Pump clean up cycles 6-8 pulling a stand after each, tripped back to bottom and pumped final clean up cycle. Spot 5lb/bbl LubraBeads in lateral. Tripped out on elevators from 19310' 14,400'.

Start Time	End Time	Comment
00:00	04:00	Circulate clean up cycles at 70 -RPM, and 120 SPM. Pumped clean up cycles 6-7, after clean up cycle #6 we pull tested string with no rotation or pump rate. Pumped 100 bbl nut plug sweep @ 5lb/bbl concentration. Pull Weight broke over at 299 K lbs, max pull 322 K lbs, and we avg around 308 K lbs while pulling stand. Average weight reduced by approximately 20K lb. After cycle #7 pull tested with no sweep, average pull was 311K lb.
04:00	04:30	Lubricate Rig - Lubricate top drive, swivel, draw works, and ST-80.
04:30	06:00	Continue with clean up cycle. Pump Bottoms up #8, stop and pull test (302K P/U) at 18,680' before running DP back to bottom for final clean up cycle.
06:00	08:00	Wash back to bottom from 18,783' to 19,310'
08:00	11:30	Circulate and reciprocate while rotting DP at 70 RPM for Final clean up cycle, Mix up and prepare Lubra-beads Pill and spot with pump #2 at 120 SPM Spot across lateral (Pump 550 bbls of 5 ppb LubraBeads & chase with 373 bbls mud)
11:30	16:30	(Start) Trip - Pull out of hole on elevators from 19,310' to 17,005' with no tight hole, tripped wet. Pumped slug, filled hole and monitor proper Drill pipe displacement withTrip tank. Trip out of the hole from 17,005' to 15,010 racking back.
16:30	17:30	Start laying down drillpipe at 15,010'. Laid down DP from 15,010 to 14,400'.
17:30	18:00	Lubricate rig - Service top drive and drawworks
18:00	23:00	Continue laying down drill pipe from 14,400' to 10,248'. Breaking out tight connections with tongs. Pulled max of 127K ft/lbs on tight connections, ended up bending 7 jnts up DP. Pioneer superintendent noted that we were exceeding max torque on tongs, tongs were rated for 65K fl/lbs. Located 100K ft/lbs on Pioneer 44 and called Kimzey Casing for their break out tongs. Began standing back stands with connections that wouldn't break out with ST-80. Decided to try Kimzey break out tongs that showed up on location about the same time as Double D HT-100s tongs from Pioneer 44.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
23:00	23:30	Had safety meeting w/ Kimzey and Pioneer to discuss the process and procedures to rigging up very large break out tongs.
23:30	00:00	Start rigging up Kimzey's break out tongs. Had to respot power unit behind rig on matting boards to avoid forklift and to have enough hose to reach floor. Lay down line was used with forklift to pickup and spot 5K lb break out tongs.

Report Start Date	Report End Date	24hr Activity Summary
7/25/2014	7/26/2014	Lay down drill pipe from 10,248' to BHA. Layed down convential motor assembly, bit graded at an 1-1 with 2 plugged nozzles. Ran pipe in derrick back in the hole (4,100' of drill pipe), cut and slip drill line, and rig up HT-100 Tongs before tripping out of the hole and laying down drill pipe. Trip out of the hole to 4,000'.

Start Time	End Time	Comment
00:00	02:30	Finish rigging up Kimzey's break out tongs. Once tongs were rigged we tried to break out a connection that the ST-80 was not able to break out, Kimzey's tool maxed out at 78K ft/lbs of torque and didn't break out pipe. Rigged Kimzey down. Rigged up HT-100 tongs that were sent over from Pioneer 44
02:30	07:30	(Start) Trip - Lay down drill pipe from 10,248' to 6747' (Connections Breaking out at an avg of 65k ft/lbs with torques as high 95K)
07:30	08:00	Lubricate rig - Service top drive and draw works
08:00	14:30	Lay down drip pipe from 6747' to 5168' Run in 5 stands out of derrick with Tight connections and Break them Down while string weight is still 100K+ Continue Lay down Drill Pipe from 5158 to 1132' (Connections Breaking out at an avg of 65k ft/lbs with torques as high 95K)
14:30	15:00	Pull Rotating head insert and stand back one stand drill pipe
15:00	15:30	Service and check oils in top drive, draw works,
15:30	16:30	(Stop) Rig down HT-100 tongs and rig up BB-65 tongs. Sent HT-100 tongs to Pioneer 44
16:30	17:00	(Start) Trip - Trip out of the hole from 1,038' to 90'.
17:00	19:00	(Start) Handle BHA Lay down conventional mud motor 8 1/2" BHA. Load tools onto trucks to be shipped back to Houston and Weatherford's shop.
19:00	21:30	(Start) Trip - Run in the hole with 43 stands of drill pipe that was racked back in the derrick. 4,100' was ran back in the hole so we could lay down drill pipe.
21:30	23:00	(Start) Slip and Cut Drill Line - Cut and slip 120' of drill line. Recalibrate rig and rigged back up the HT-100 that were borrowed from Pioneer 44.
23:00	00:00	(Start) Trip - Lay down drill pipe from 4,100 to 4,000'.

Report Start Date	Report End Date	24hr Activity Summary
7/26/2014	7/27/2014	Finish laying down drill pipe, lay down last 4000'. Pull wear bushing. Rig up Kimzey Casing Service and hold JSA discussing communication, pace, working in the heat, and stop work responsibility. Run casing from 0' to 7,100' with Deep Well representative on location observing make up.

Start Time	End Time	Comment
00:00	04:30	Lay down drill pipe from 4,000' to 600'. Connections breaking at average of 65K ft/lbs. Max break was 95K ft/lbs, 2-4 joints.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
04:30	05:00	Rig Service - Service Top Drive, Draw works, ST-80.
05:00	06:00	Lay down last 600' of drill pipe. Wash floor for Kimzey's crews.
06:00	06:30	Lubricate rig - Service top drive and drawwork Flow Check No Flow
06:30	07:00	Pull wear Bushing
07:00	10:30	(Start) Casing Operations - Hold PJSM with rig crew and casing crew Prior to Rigging up casing Tools. Rig up casing tools Continue to monitor For flow
10:30	17:30	Make up shoe, float, landing collar, and RSI sleeve. Tested float with CRT tool after making up the landing collar. Tested good. Ran on collar clamp until joint 15. Run 5 1/2" production casing to 4059', joint 3-15 got 5 1/2" x 8 1/2" centralizers, ran 1 centralizer per joint. Filling pipe every 40 joints, pumping at 45-50 stk/min.
17:30	18:00	Lubricate Rig - Service and check oils in top drive draw works, grease catwalk.
18:00	18:30	Pre Job safety meeting with Kimzey casing and new Pioneer rig crew. Talked about good communication during handover, swapping out when getting tired, and continued to talk about working in the heat.
18:30	00:00	Run 5 1/2" production casing from 4059' to 7,100' w/ 1 centralizer per joint. Stopping to fill every 40 jnts, pumping at 45 stk/min and 560 psi on fills. Flow checks were showing no flow.

Report Start Date	Report End Date	24hr Activity Summary
7/27/2014	7/28/2014	Run casing with Kimzey Casing Service from 7,100' to 19,305'. Stage in GSI cement head and HES equipment.

Start Time	End Time	Comment
00:00	01:30	Run 5 1/2" production casing from 7,100' to 8,427'.
01:30	03:00	Circulate all remaining air out of the pipe and to surface. Pumped from surface a complete cycle at the intermediate shoe. Pumped at 60 stk/min (5 bpm equivalent) at750 psi. RSI sleeve max pressure was 7341 psi. Saw 320 units of gas on bottoms up.
03:00	03:30	Lubricate Rig - Lubricate draw works and top drive.
03:30	06:00	Run 5 1/2" casing from 8,427 to 10246'.
06:00	17:30	Continue running casing, Fill Pipe at 10246 and the day light rig crew held a Prejob safety meeting with KCS and reveiwed JSA. Continue running casing from 10,246 to 18,026' Filling pipe and Breaking circ every 40 Joints. Begin Cleaning Mud tanks with Red Messa Oil field Services Supervac and Pig truck
17:30	18:00	Lubricate Rig - Rig service/ service and check oils in top drive and draw works.
18:00	18:30	Held JSA with Kimzey Casing Service, Pioneer was switching out crews to morning tower so we had a discusion about communication and removing objects from the floor with the winch.

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
18:30	23:30	Continue running casing, fill pipe at 18,625'. Ran casing to bottom with out having to rotate. Casing on bottom at 21:00. 21:45 landed casing at 19,305', used Kimzey Casing Service tongs to make up landing joint. Rig down Kimzey Casing Service and rigged up GSI cementing head to circulate while rigging up cementers.
23:30	00:00	Circulate on hole while rotating casing, bottoms up at 10,600 stks. Pumping at 60 spm (5 bpm), 950 psi, and 15 rpm. Stage out HES equipment.

Report Start Date	Report End Date	24hr Activity Summary
7/28/2014	7/29/2014	Rig up Halliburton while circulating Bottoms up with casing at 4 bpm while rotating at 15 gpm

Start Time	End Time	Comment
00:00	00:30	Lubricate Rig - Rig service/ service and check oils in top drive and draw works.
00:30	03:30	Circulate Bottoms up with 4 BPM at 650 PSI while rotating at 15 RPM
03:30	04:00	(START) Cementing Operations - PJSM with Halliburton and rig crew Reveiwed JSA and discussed SWA and reinforced Team work. Continue circulating with 4 BPM at 650 PSI
04:00	04:30	Hook up Halliburton Iron to Cement head. (stopped circulation with rig pumps) Prime up Both cement trucks and Pressuretest to 500 PSI Low and 8000 PSI high
04:30	09:30	Cement Well with Halliburton using a one blend System Job details: Tuned spacer: 40 bbl without beads at15.4 ppg Turgo-vis spacer: 346 bbl without beads at15.4 ppg Primary cement :548 bbl at 15.7 ppg Disp : 425 bbls Proposed pressure to land: 3500 psi Max surface pressure at plug down: 6784 psi 04:44 Begin pumping Tuned spacer at 4 Bpm with 1270 psi at 15.4 down hole reading 14.8 ppg 04:56 41.6 bbls tuned spacer gone begin batching up Turgo- vis Drop bottom plug 05:11 begin pumping Turgo-vis at 3 Bpm with 1100 psi at 14.8 ppg Reduced rate to 2.4 Bpm to maintain weight at 15.6 ppg with 1000 psi 05:20 catch sample with 25 bbls away and weigh out at 15.4 ppg calibrate down hole density 06:15 195 bbls Turgo-vis pumped increased rate to 4 Bpm with 915 psi at 15.4 ppg 07:00 375 bbls Turgo-vis pumped start primary cement at 15.9 ppg pumping 4 Bpm with 500 psi cement pumps aired up, boost pumps and slow rate then shut down B side pump, caught pressure with stage counter showing 22 bbls away 07:08 pumping primary cement at 15.7 ppg with 1060 psi at 4 Bpm Scale cement sample at 15.7 ppg 07:20 Rotary torque increasing 07:45 slowed rate to 1 Bpm, had trouble getting cement after swapping bins (held weight above 15 ppg) 07:48 increased rate to 4 Bpm with 1230 psi at 15.6 ppg rotary torque leveled out at 10 to 11k 08:20 Increase max rotary torque to 17k torque is bouncing as high as 12,600 ft/lbs 08:52 increase max rotary torque to 18k torque is peaking at 16,700 08:53 with 500 bbls of cement pumped the pressure is 1700 psi at 5 Bpm. 09:10 we are assuming our stage total of 566 bbls is off so we calculated total volume off stage mix water total and calculated that 526 bbls of 548 had been pumped so we cycled through all the bins again to get another 16 bbls 09:32 stop pumping cement with 542 bbls total / stop rotation and prepare to drop second plug 09:33 Begin washing up pump and lines

NEWFIELD

Summary Rig Activity

Well Name: Ute Tribal 13-9-4-3-2WH

Start Time	End Time	Comment
09:30	11:30	Continue Cement, Begin Displacement 09:40 Drop second plug start pumping displacement at 5 Bpm 10 bbls away at 5 Bpm with 1267 psi 40 bbls away shut down and asses leak on rotating cement head 09:58 Start pumping again at 5 Bpm and rotate with 18k torque leak continues. (GSI rep recommends to continue pumping with top seal leaking) 110 bbls away at 5 Bpm with 3000 psi /Good returns 160 bbls away at 5 Bpm with 3700 psi 18.6k torque 180 bbls away at 5 Bpm with 4200 psi 200 bbls away (final weight at landing point) at 5 Bpm with 4500 psi Set safety kicks at 6200 psi Good returns 210 bbls away 5 Bpm with 4500 psi 250 bbls away at 5 Bpm with 4500 Torque at 19k Good returns 280 bbls away at 5 Bpm with 4700 psi Torque at 19,800 300 bbls away at 5 Bpm with 4800 350 bbls away at 5 Bpm with 4900 *377 bbls away Started getting spacer back 380 bbls away at 5 Bpm with 5000 psi Reduce rate to 1.5 BPM (trouble getting Disp water to truck) 410 bbls away at 4 Bpm with 4650 psi torque is at 19000 *11:17 plug down with 418 bbls away Bumped Plug with 700 psi over FCP of 4750 psi Held for 3 minutes pressure stayed at 5450 bleed off and got 7.5 bbls back, floats held Total Returns 46 bbls of tuned spacer and Turgo-vis back at Surface
11:30	14:30	Wash Up and Rig Down Halliburton, Flush out BOP and Flowline, Rig Down GSI Cement Head
14:30	16:00	(Start) NU Well Head Equipment - Hold PJSM with Cameron Crew and rig Crew, break out Landing Joint and Run Pack off.
16:00	17:00	(Stop) Safety Stand Down - Driller recieved a H2S alarm indicating that there was H2S present in the subtructure. The evacuation alarm was sounded and all personnel on location gathered at the secondary muster point. All personnel were acounted upond arrival at the mustrer point. Drilling foreman and Pioneer tool pusher swept the rig w/ SCBAs on and found no sign of H2S or any down individuals. Once the area was deamed safe to renter all personnel went back to work on the buddy system with H2S monitors. The source of gas was determined to be pressure washing the sub and getting a sensor wet.
17:00	18:00	(Start) ND BOP - Laydown mouse hole, nipple down rotating head, and remove head from annular. Nipple down BOP and realease the rig 18:00 on the UT 13-9-4-3-2WH. Will move to the Lucy 3-15-22-3-2WH.